KYOCERA

FS-1370DN

OPERATION GUIDE

Please read this Operation Guide before using this machine. Keep it close to the machine for easy reference.

This Operation Guide is for model FS-1370DN.

Note This Operation Guide contains information that corresponds to using both the inch and metric versions of these machines.

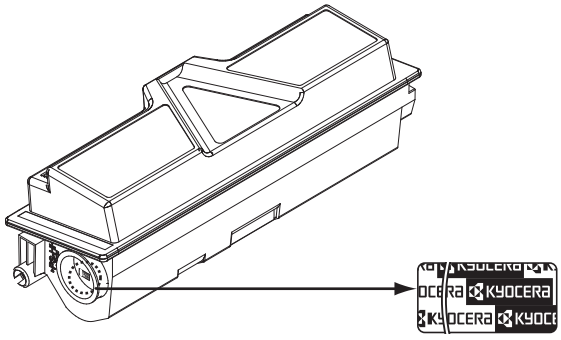
The inch versions of these machines are shown in the screens in this guide. If you are using the metric version, use the messages provided for the inch version as reference only. In the body text, only the inch messages are given if these versions differ only in capitalization. When there is even a slight difference in the message, we have listed the information for the inch version followed, in brackets, by the corresponding information for the metric version.

This Operation Guide is intended to help you operate the machine correctly, perform routine maintenance and take a simple troubleshooting action as necessary, so that you can always use the machine in good condition.

Please read this Operation Guide before you start using the machine, and keep it close to the machine for easy reference.

We recommend the use of our own brand supplies. We will not be liable for any damage caused by the use of third party supplies in this machine.

A label shown in the illustration assures that the supplies are our own brand.



Contents

1 Machine Parts 1-1
Components at the Front of the Printer 1-2
Components at the Rear of the Printer 1-2
Operation Panel 1-3

2 Loading Paper 2-1
Preparing the Paper 2-2
Loading Paper into Cassette 2-2
Loading Paper into MP (Multi-Purpose) Tray 2-5
Paper Stopper 2-6

3 Connecting and Printing 3-1
Connections 3-2
Changing Network Interface Parameters 3-4
Printing a Network Interface Status Page 3-12
Installing the Printer Driver 3-13
Printing 3-19
Status Monitor 3-20
Uninstalling Software (Windows PC) 3-24

4 Maintenance 4-1
General Information 4-2
Toner Container Replacement 4-2
Maintenance Kit Replacement 4-5
Cleaning the Printer 4-6
Prolonged Non-Use and Moving of the Printer 4-9

5 Troubleshooting 5-1
General Guidelines 5-2
Print Quality Problems 5-3
Error Messages 5-5
Ready, Data, and Attention Indicators 5-9
Clearing Paper Jams 5-10

6 Appendix 6-1
Specifications 6-2
Environmental Standard Requirements 6-4

Index Index-1

1Legal and Safety Information

Please read this information before using your machine. This chapter provides information on the following topics:

Legal Information iv
License Agreements v
Safety Information xi
Symbols xv
Installation Precautions xvi
Precautions for Use xviii
About the Operation Guide xx
Conventions in This Guide xxi

Legal Information

CAUTION NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL. The emulation mode can be changed.

Notice

The information in this guide is subject to change without notification. Additional pages may be inserted in future editions.

The user is asked to excuse any technical inaccuracies or typographical errors in the present edition.No responsibility is assumed if accidents occur while the user is following the instructions in this guide. No responsibility is assumed for defects in the printer's firmware (contents of its read-only memory).

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Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Safety Information

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser Notice

This printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC 825.

DANGER CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Radio Frequency Transmitter

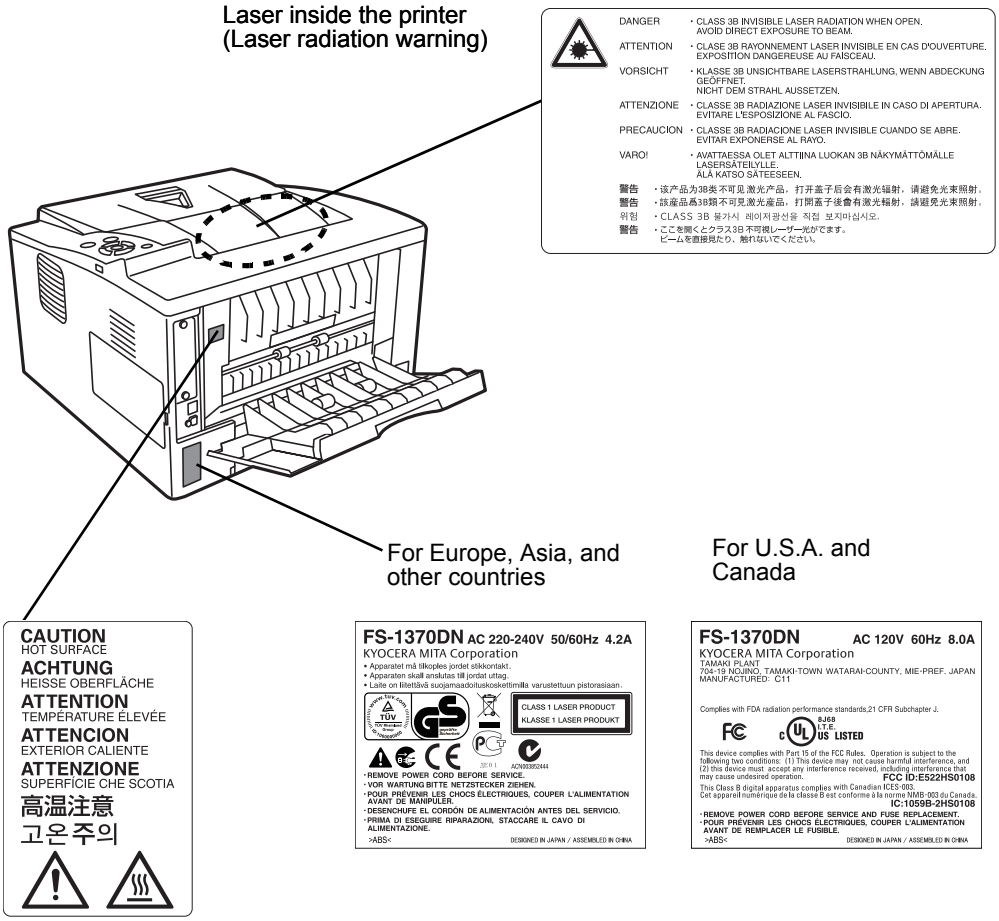
This machine contains a transmitter module. We, the manufacturer (Kyocera Mita Corporation) hereby declare that this equipment (page printer), model FS-1370DN is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Radio Tag Technology

In some countries, the radio tag technology used in this equipment to identify the toner container may be subject to authorization, and the use of this equipment may consequently be restricted.

Caution Labels

The printer bears any of the following labels.


Laser inside the printer
(Laser radiation warning)
DANGER ・CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ATTENTION ・CLASE 3B RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT ・KLASSE 3B UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENZIONE ・CLASSE 3B RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION ・CLASE 3B RADIACION LASER INVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
VARO! ・AVATTAESSA OLET ALTTIINA LUOKAN 3B NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
警告 ・该产品为3B类不可见激光产品，打开盖子后会有激光辐射，请避免光束照射。
警告 ・該產品爲3B類不可見激光產品，打開蓋子後會有激光輻射，請避免光束照射。
위험 ・CLASS 3B 불가시 레이저광선을 직접 보지마십시오.
警告 ・ここを開くとクラス3B 不可視レーザー光がでます。ビームを直接見たり、触れないでください。
For Europe, Asia, and other countries
For U.S.A. and Canada
CAUTION
HOT SURFACE
ACHTUNG
HEISSE OBERFLÄCHE
ATTENTION
TEMPÉRATURE ÉLEVÉE
ATTENCION
EXTERIOR CALIENTE
ATTENZIONE
SUPERFÍCIE CHE SCOTIA
高温注意
고온주의
FS-1370DN AC 220-240V 50/60Hz 4.2A
KYOCERA MITA Corporation
• Apparatet må tilkoples jordet stikkontakt.
• Apparaton skall anslutas till jordat uttag.
• Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan.
CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
・REMOVE POWER CORD BEFORE SERVICE.
・VOR WARTUNG BITTE NETZSTECKER ZIEHEN.
・POUR PRÉVENIR LES CHOCS ÉLECTRIQUES, COUPER L'ALIMENTATION AVANT DE MANIPULER.
・DESENCHUFE EL CORDÓN DE ALIMENTACIÓN ANTES DEL SERVICIO.
・PRIMA DI ESEGUIRE RIPARAZIONI, STACCARE IL CAVO DI ALIMENTAZIONE.
>ABS<
DESIGNED IN JAPAN / ASSEMBLED IN CHINA
FS-1370DN AC 120V 60Hz 8.0A
KYOCERA MITA Corporation
TAMAKI PLANT
704-19 NOJINO, TAMAKI-TOWN WATARAI-COUNTY, MIE-PREF. JAPAN
MANUFACTURED: C11
Complies with FDA radiation performance standards,21 CFR Subchapter J.
8J68
I.T.E.
US LISTED
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
FCC ID:E522HS0108
This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.
IC:1059B-2HS0108
・REMOVE POWER CORD BEFORE SERVICE AND FUSE REPLACEMENT.
・POUR PRÉVENIR LES CHOCS ÉLECTRIQUES, COUPER L'ALIMENTATION AVANT DE REMPLACER LE FUSIBLE.
>ABS<
DESIGNED IN JAPAN / ASSEMBLED IN CHINA

CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Ozone Concentration

These printers generate ozone gas (O_3), which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

DECLARATION OF CONFORMITY
TO
2004/108/EC, 2006/95/EEC, 93/68/EEC, 1999/5/EC and 2009/125/EC

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the following specifications.

EN55024

EN55022 Class B

EN61000-3-2

EN61000-3-3

EN60950-1

EN60825-1

EN300 330-1

EN300 330-2

EN62301

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministere des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EN ISO 7779

Maschinenlärminformations-Verordnung 3. GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

EK1-ITB 2000

Das Gerät ist nicht für die Benutzung im unmittelbaren Gesichtsfeld am Bildschirmarbeitsplatz vorgesehen. Um störende Reflexionen am Bildschirmarbeitsplatz zu vermeiden, darf dieses Produkt nicht im unmittelbaren Gesichtsfeld platziert werden.

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Safety Instructions Regarding the Disconnection of Power

Caution: The power plug is the main isolation device! Other switches on the equipment are only functional switches and are not suitable for isolating the equipment from the power source.

VORSICHT: Der Netzstecker ist die Hauptisoliervorrichtung! Die anderen Schalter auf dem Gerät sind nur Funktionsschalter und können nicht verwendet werden, um den Stromfluß im Gerät zu unterbrechen.

Energy Saving Function

This printer comes equipped with a Sleep Mode where printer function remains in a waiting state but power consumption is still reduced to a minimum when there is no activity with the printer within a set amount of time.

Sleep Mode

This printer automatically enters Sleep Mode when approximately 15 minutes have passed since the printer was last used. The amount of time of no activity that must pass before Sleep Mode is activated may be lengthened.

Duplex Printing

This printer includes duplex printing as a standard function. For example, by printing two single-sided originals onto a single sheet of paper as a duplex printing, it is possible to lower the amount of paper used.

Recycled Paper

This printer supports recycled paper which reduces the load on the environment. Your sales or service representative can provide information about recommended paper types.

Energy Star (ENERGY STAR®) Program

We have determined as a participating company in the International Energy Star Program that this product is compliant with the standards laid out in the International Energy Star Program.

Symbols

The sections of this guide and parts of the machine marked with symbols are safety warnings meant to protect the user, other individuals and surrounding objects, and ensure correct and safe usage of the machine. The symbols and their meanings are indicated below.

DANGER: Indicates that serious injury or even death will very possibly result from insufficient attention to or incorrect compliance with the related points.

WARNING: Indicates that serious injury or even death may result from insufficient attention to or incorrect compliance with the related points.

CAUTION: Indicates that personal injury or mechanical damage may result from insufficient attention to or incorrect compliance with the related points.

The following symbols indicate that the related section includes safety warnings. Specific points of attention are indicated inside the symbol.

.... [General warning]

.... [Warning of danger of electrical shock]

.... [Warning of high temperature]

The following symbols indicate that the related section includes information on prohibited actions. Specifics of the prohibited action are indicated inside the symbol.

.... [Warning of prohibited action]

.... [Disassembly prohibited]

The following symbols indicate that the related section includes information on actions which must be performed. Specifics of the required action are indicated inside the symbol.

.... [Alert of required action]

.... [Remove the power plug from the outlet]

.... [Always connect the machine to an outlet with a ground connection]

Please contact your service representative to order a replacement if the safety warnings in this Operation Guide are illegible or if the guide itself is missing. (fee required)

⚠ Installation Precautions

Environment

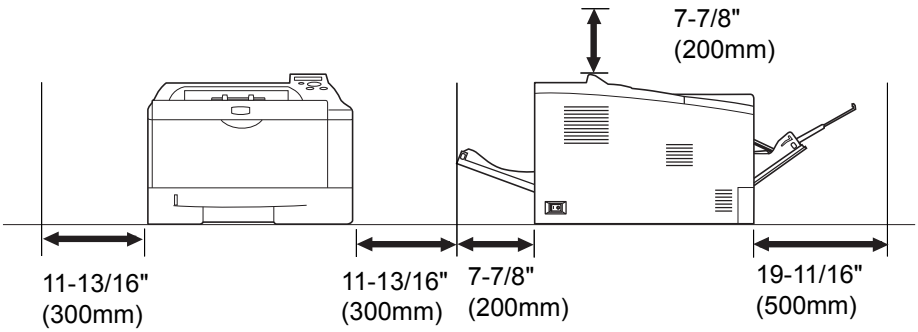
⚠ Caution

Avoid placing the machine on or in locations which are unstable or not level. Such locations may cause the machine to fall down or fall over. This type of situation presents a danger of personal injury or damage to the machine.

Avoid locations with humidity or dust and dirt. If dust or dirt become attached to the power plug, clean the plug to avoid the danger of fire or electrical shock.

Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire.

To keep the machine cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the rear cover, to allow air to be properly ventilated out of the printer.



Other Precautions

Adverse environmental conditions may affect the safe operation and performance of the machine. Install in an air-conditioned room (recommended room temperature: around 23°C (73.4°F), humidity: around 60 % RH), and avoid the following locations when selecting a site for the machine.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.

Power Supply/Grounding the Machine

⚠ Warning

Do not use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock.

Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock.

Always connect the machine to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative.

Other precautions

Connect the power plug to the closest outlet possible to the machine.

The power supply cord is used as the main disconnect device. Ensure that the socket/outlet is located/installed near the equipment and is easily accessible.

Handling of plastic bags

⚠ Warning

Keep the plastic bags that are used with the machine away from children. The plastic may cling to their nose and mouth causing suffocation.

⚠ Precautions for Use

Cautions when using the machine

⚠ Warning

Do not place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the machine. This situation presents a danger of fire or electrical shock should they fall inside.

Do not remove any of the covers from the machine as there is a danger of electrical shock from high voltage parts inside the machine.

Do not damage, break or attempt to repair the power cord. Do not place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage. These types of situations present a danger of fire or electrical shock.

Never attempt to repair or disassemble the machine or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness.

If the machine becomes excessively hot, smoke appears from the machine, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the main power switch off (○) immediately, be absolutely certain to remove the power plug from the outlet and then contact your service representative.

If anything harmful (paper clips, water, other fluids, etc.) falls into the machine, turn the main power switch off (○) immediately. Next, be absolutely certain to remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative.

Do not remove or connect the power plug with wet hands, as there is a danger of electrical shock.

Always contact your service representative for maintenance or repair of internal parts.

⚠ Caution

Do not pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (Always grasp the power plug when removing the power cord from the outlet.)

Always remove the power plug from the outlet when moving the machine. If the power cord is damaged, there is a danger of fire or electrical shock.

If the machine will not be used for a short period of time (overnight, etc.), turn the power switch off (O). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the machine is not in use.

Always hold the designated parts only when lifting or moving the machine.

For safety purposes, always remove the power plug from the outlet when performing cleaning operations.

If dust accumulates within the machine, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the machine.

Other precautions

Do not place heavy objects on the machine or cause other damage to the machine.

Do not open the upper front cover, turn off the main power switch, or pull out the power plug during printing.

When lifting or moving the machine, contact your service representative.

Do not touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.

Do not attempt to perform any operations not explained in this handbook.

Use shielded interface cables.

⚠ Caution

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions when Handling Consumables

⚠ Caution

Do not attempt to incinerate the Toner Container. Dangerous sparks may cause burns.

Keep the Toner Container out of the reach of children.

If toner happens to spill from the Toner Container, avoid inhalation and ingestion, as well as contact with your eyes and skin.

- If you do happen to inhale toner, move to a place with fresh air and gargle thoroughly with a large amount of water. If coughing develops, contact a physician.
- If you do happen to ingest toner, rinse your mouth out with water and drink 1 or 2 cups of water to dilute the contents of your stomach. If necessary, contact a physician.
- If you do happen to get toner in your eyes, flush them thoroughly with water. If there is any remaining tenderness, contact a physician.
- If toner does happen to get on your skin, wash with soap and water.

Do not attempt to force open or destroy the Toner Container.

Other precautions

After use, always dispose of the Toner Container in accordance with Federal, State and Local rules and regulations.

Store all consumables in a cool, dark location.

If the machine will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.

About the Operation Guide

This Operation Guide contains the following chapters:

1 Machine Parts

This chapter explains the names of parts.

2 Loading Paper

This chapter explains paper specifications for this printer and how to load paper into the cassette or MP tray.

3 Printing

This chapter explains how to install the printer driver, print from your PC, and use the application software included in the CD-ROM.

4 Maintenance

This chapter explains how to replace the toner container and how to care for your printer.

5 Troubleshooting

This chapter explains how to handle printer problems that may occur, such as paper jams.

6 Specifications

This chapter lists the specifications of this printer.

Conventions in This Guide

This manual uses the following conventions.

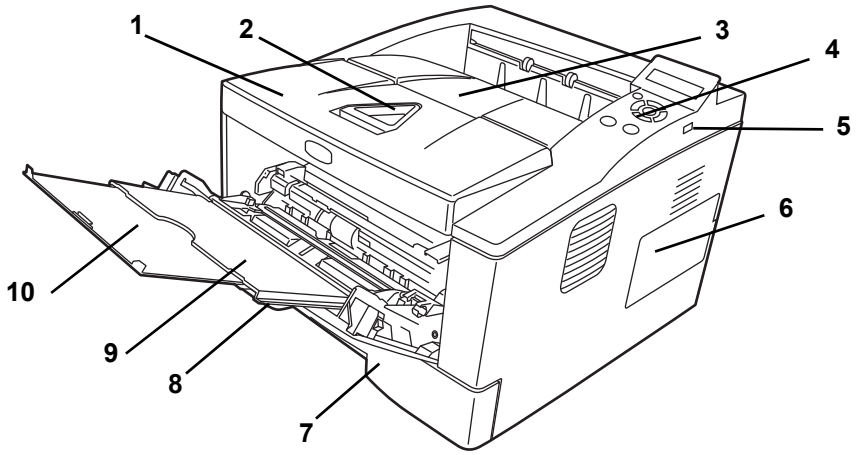
Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	Refer to *Print Quality Problems* on page 5-3.
Bold	Used to denote buttons on the software.	To start printing, click **OK**.
Bracket Bold	Used to denote operation panel keys.	Press **[GO]** to resume printing.
Note	Used to provide additional or useful information about a function or feature.	**Note** Do not remove the toner container from the carton until you are ready to install it in the printer.
Important	Used to provide important information.	**IMPORTANT** Take care not to touch the transfer roller (black) during cleaning.
Caution	Cautions are statements that suggest mechanical damage as a result of an action.	**CAUTION** When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.
Warning	Used to alert users to the possibility of personal injury.	**WARNING** If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

1 Machine Parts

This chapter identifies machine parts and operation panel keys.

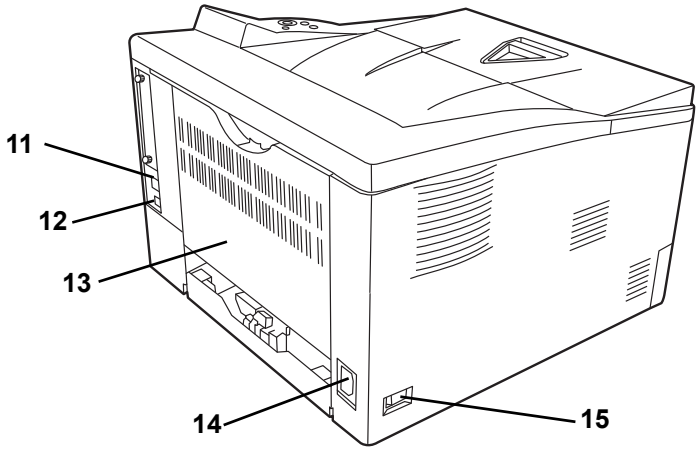
Components at the Front of the Printer **1-2**
Components at the Rear of the Printer **1-2**
Operation Panel **1-3**

Components at the Front of the Printer



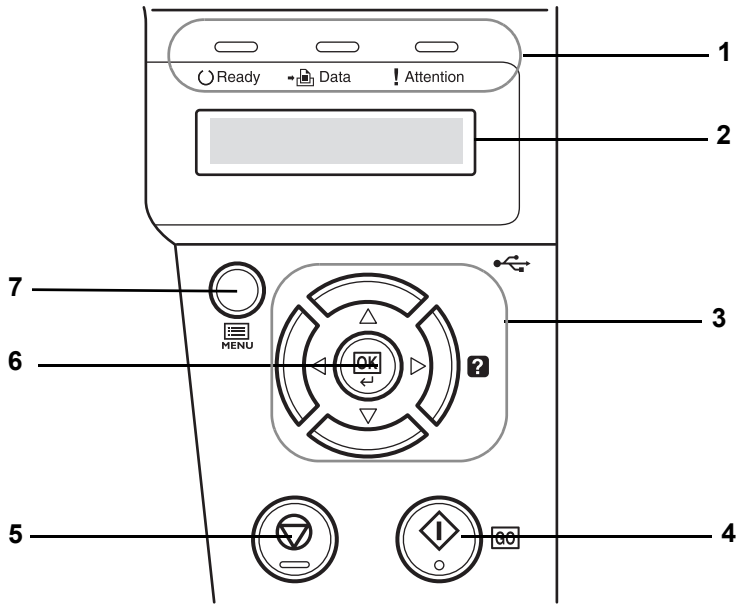
1 Top Cover
2 Paper Stopper
3 Top Tray
4 Operation Panel
5 USB Memory Slot
6 Right Cover
7 Paper Cassette
8 Front Cover
9 MP Tray
10 Subtray

Components at the Rear of the Printer



11 Network Interface Connector
12 USB Interface Connector
13 Rear Cover
14 Power Cord Connector
15 Power Switch

Operation Panel



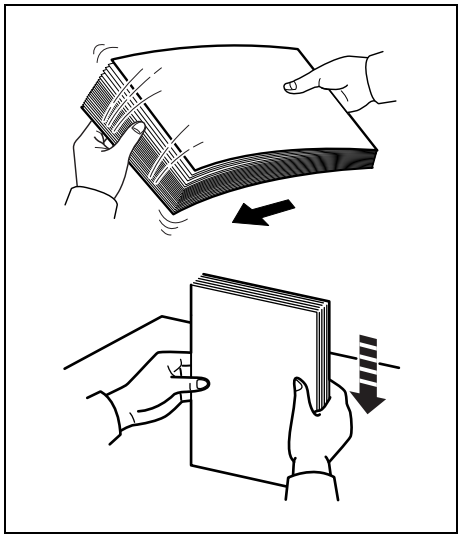
1 Indicators
2 Message Display
3 Cursor Keys
4 **[GO]** Key
5 **[Cancel]** Key
6 **[OK]** Key
7 **[MENU]** Key

2 Loading Paper

This chapter explains how to load paper into the cassette or MP tray.

Preparing the Paper **2-2**
Loading Paper into Cassette **2-2**
Loading Paper into MP (Multi-Purpose) Tray **2-5**

Preparing the Paper



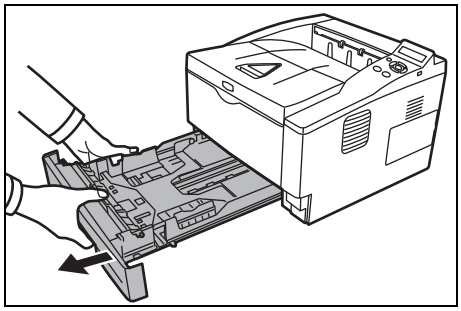
After removing paper from the packaging, fan through the sheets to separate them prior to loading.

If using paper that has been folded or is curled, straighten it prior to loading. Failure to do so may result in a paper jam.

IMPORTANT Ensure paper is not stapled and clips are removed.

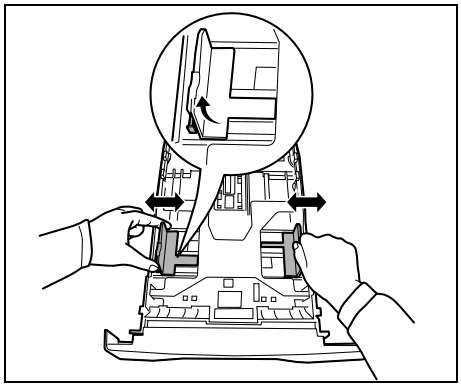
Loading Paper into Cassette

250 sheets of 11 × 8 1/2" or A4 paper (80 g/m²) may be loaded into the Cassette.



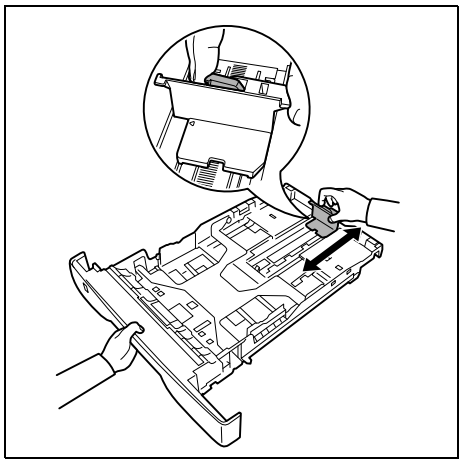
1 Pull the cassette completely out of the printer.

IMPORTANT When pulling the cassette out of the printer, ensure it is supported and does not fall out.

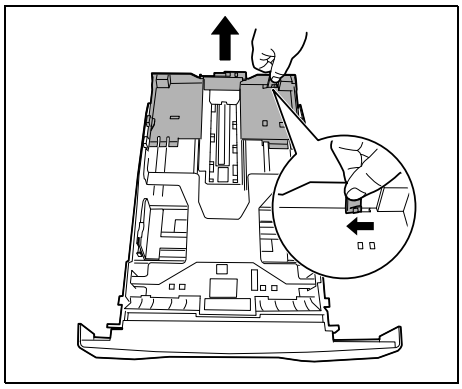


2 Adjust the position of the width guides located on the left and right sides of the cassette. Press the release button on the left guide and slide the guides to the paper size required.

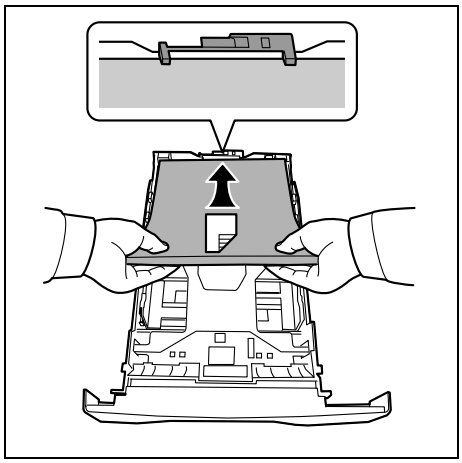
Note Paper sizes are marked on the cassette.



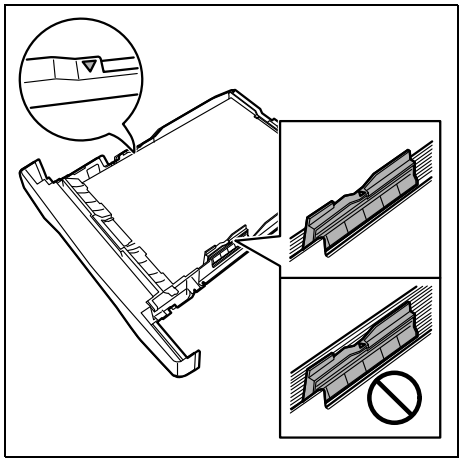
3 Adjust the paper length guide to the paper size required.



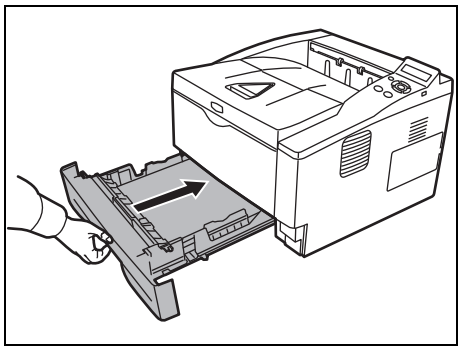
If you are going to use paper that is longer than A4, pull out the extension paper cassette by pushing the release lever one by one and adjust it to the desired paper size.



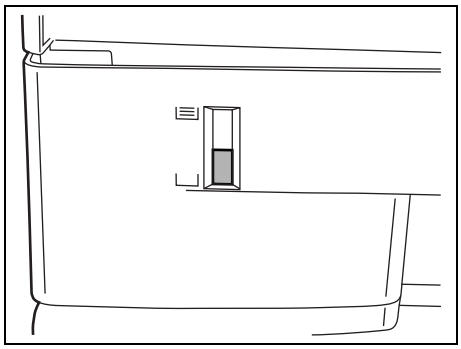
4 Load the paper in the cassette. Ensure the side to be printed is facing down and the paper is not folded, curled, or damaged.



Note Do not load paper above the triangle mark located on the width guide.



5 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

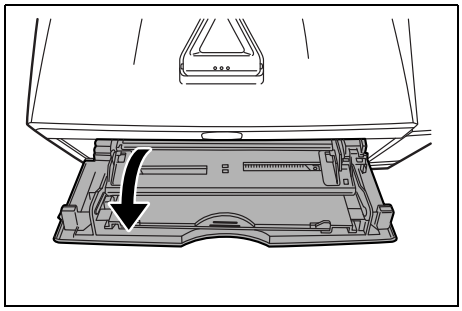


There is a paper gauge on the left side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of (empty).

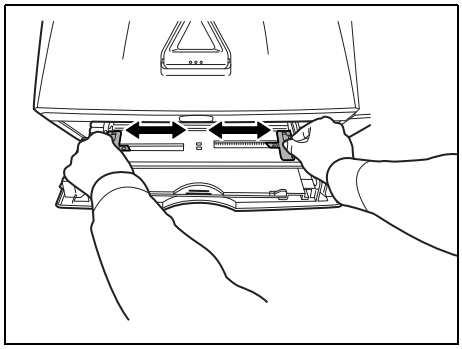
6 Specify the paper size and type for the *cassette* using control panel. For more information, refer to *Advanced Operation Guide*.

Loading Paper into MP (Multi-Purpose) Tray

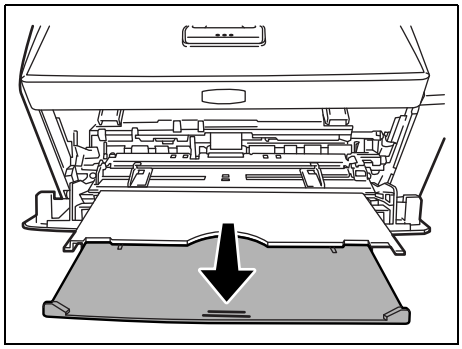
This machine can load up to 50 sheets of 11 × 8 1/2" or A4 paper (80 g/m²) into the MP tray.



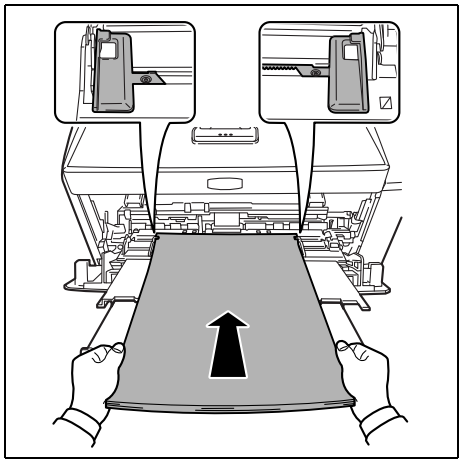
1 Pull the MP tray towards you until it stops.



2 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the paper guides to the corresponding mark.



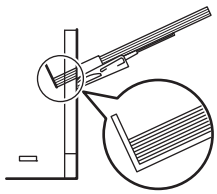
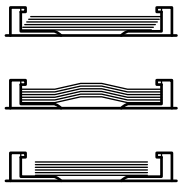
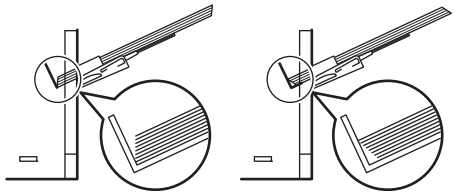
3 Pull out the subtray.

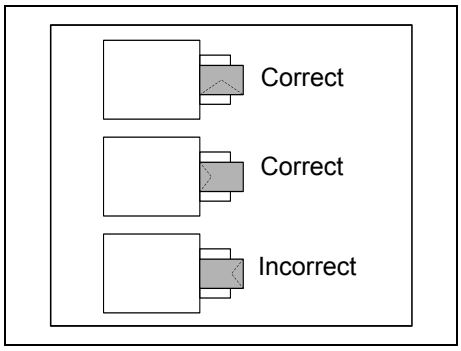


4 Align the paper with the paper guides and insert as far as it will go.

Note Do not load more paper than exceeds the tab of the MP tray.

Note If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl. Printed sheets will then come out flat.

Correct		
Incorrect		

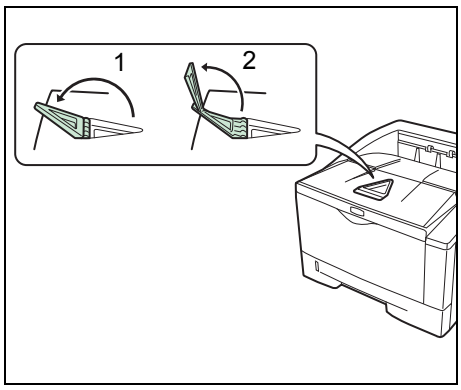


When loading envelope, place with the envelope flap closed and keep the printing side face-up. Insert envelope against the guide with the flap on the front or left side until they stop.

5 Specify the paper size and type for MP tray using control panel. For more information, refer to *Advanced Operation Guide*.

Paper Stopper

Open the paper stopper shown in the figure.



3 Connecting and Printing

This chapter explains how to start up the printer, print from your PC, and use the application software included in the CD-ROM.

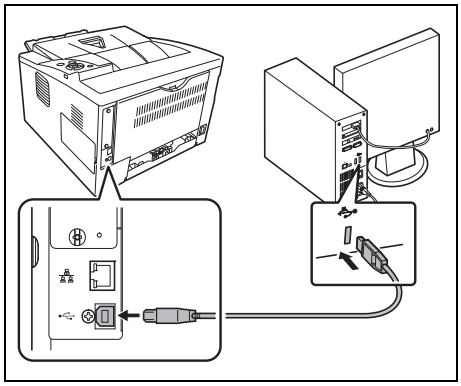
Connections **3-2**
Changing Network Interface Parameters **3-4**
Printing a Network Interface Status Page **3-12**
Installing the Printer Driver **3-13**
Printing **3-19**
Status Monitor **3-20**
Uninstalling Software (Windows PC) **3-24**

Connections

This section explains how to start up the printer.

Connecting the USB Cable

Follow the steps as below for connecting the USB cable.



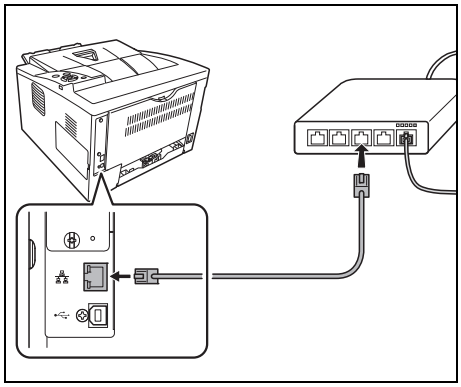
1 Connect the USB cable to the USB Interface Connector.

Note Use a USB cable with a rectangular Type A plug and a square Type B plug. This cable is sold separately.

2 Connect the other end of the USB cable to the computer's USB interface connector.

Connecting the Network Cable

Follow the steps as below for connecting the network cable.



1 Remove the cap attached to the printer.

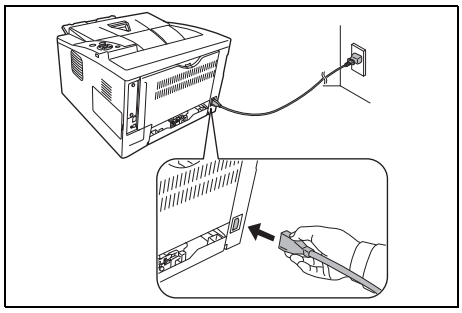
2 Connect the printer to the PC or your network device.

Note Use shielded interface cables. These cables are sold separately.

Connecting the Power Cord

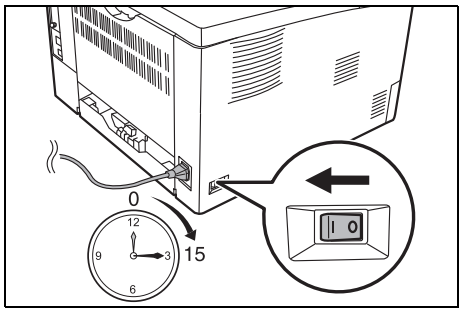
Install the printer close to an AC wall outlet. If an extension cord is used, the total length of the power cord plus extension should be 5 meters (16 feet) or less.

Note Ensure the printer's power switch is off. Only use the power cord supplied with the printer.



1 Connect the power cord to the Power Cord Connector at the rear of the printer.

2 Connect the other end of the power cord to a power outlet.



3 Press the Power Switch to On (|). The printer begins to warm up.

IMPORTANT If you install the starter toner container and switch on the power, after a moment the message `Please wait(Adding toner)` is displayed. When the printer is first switched on after toner installation, there will be a delay of approximately 15 minutes before the printer gets ready to print. Once the **[Ready]** indicator lights, printer installation is complete.

Changing Network Interface Parameters

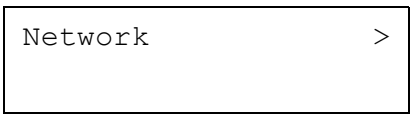
This printer supports TCP/IP, TCP/IP (IPv6), NetWare, AppleTalk, IPP, SSL Server, IPSec protocols, and Security Level. For more information, refer to the *Advanced Operation Guide*.

Note After all network related settings have been done, turn the machine OFF and ON again. This is mandatory to make the settings effective.

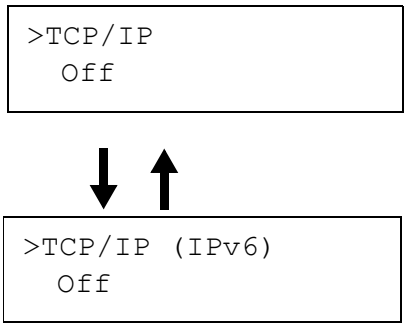
TCP/IP, TCP/IP (IPv6) settings

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Network >` appears.



3 Press ▷. Each time you press △ or ▽, the selection changes. Refer to the explanations below when specifying the settings.

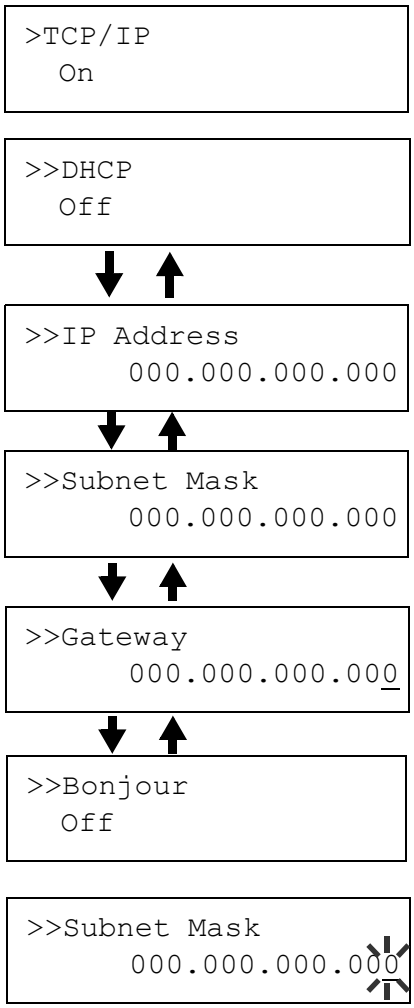


Set this item to `On` when you connect to a network using `TCP/IP`. Submenu has items including `DHCP`, `IP Address`, `Subnet Mask`, `Gateway` and `Bonjour`.

Set this item to `On` when you connect to a network using `TCP/IP (IPv6)`. Submenu has items including `RA(Stateless)` and `DHCPv6`.

TCP/IP

This section describes how to enable the TCP/IP protocol.



1 If `TCP/IP` is set to `Off`, use △ or ▽ to select `On` and press **[OK]**.

2 Press ▷. Each time you press △ or ▽, the selection changes.

3 Display the item you want to set and press **[OK]**. A blinking question mark (`?`) appears while you are setting `DHCP` and `Bonjour`. A blinking cursor (_) appears while you are setting `IP Address`, `Subnet Mask` and `Gateway`.

4 Press △ or ▽ to select `On` or `Off` as the setting for `DHCP` and `Bonjour`.

For the `IP Address`, `Subnet Mask` and `Gateway` settings, press △ or ▽ to move the blinking cursor to the number you want to change (`000` to `255`). Use ◁ and ▷ to move the cursor right and left.

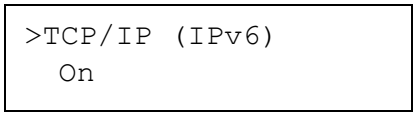
Note Check with your network administrator for the network address settings.

5 Press **[OK]**.

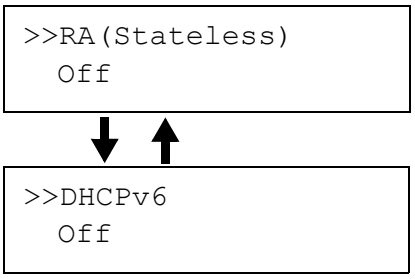
6 Press **[MENU]**. The display returns to `Ready`.

TCP/IP (IPv6)

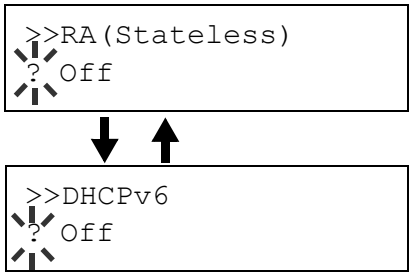
This section describes how to enable the TCP/IP (IPv6) protocol.



1 If `TCP/IP (IPv6)` is set to `Off`, use △ or ▽ to select `On` and press **[OK]**.



2 Press ▷. Each time you press △ or ▽, the selection changes.



3 Display the item you want to set and press **[OK]**. A blinking question mark (`?`) appears while you are setting `RA(Stateless)` and `DHCPv6`.

4 Press △ or ▽ to select `On` or `Off` as the setting for `RA(Stateless)` and `DHCPv6`.

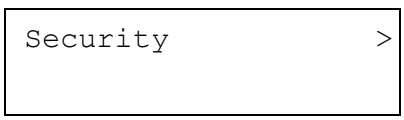
Note Check with your network administrator for the network address settings.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

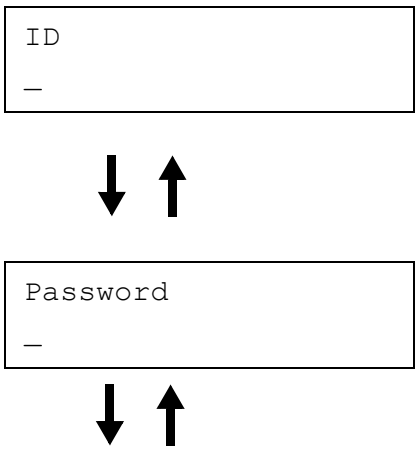
NetWare, AppleTalk, IPP, SSL Server, IPSec and Security Level settings

1 Press **[MENU]**.



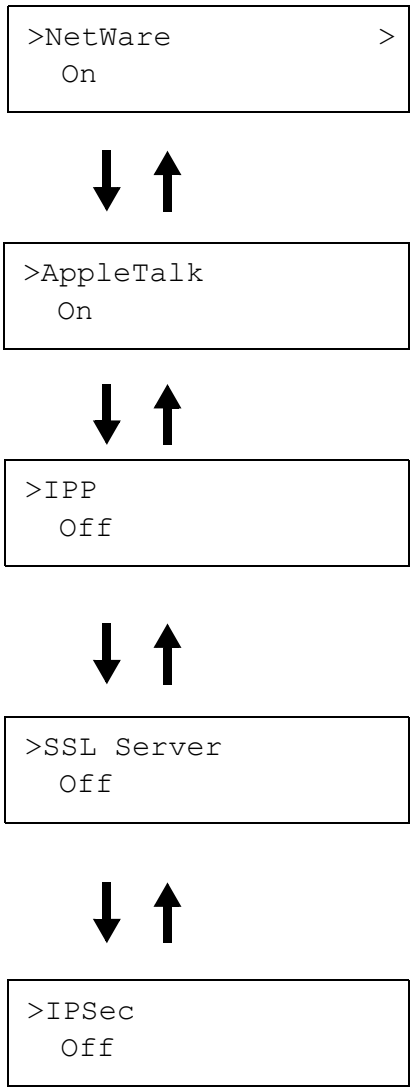
2 Press △ or ▽ repeatedly until `Security >` appears.

3 Press ▷. Each time you press △ or ▽, the selection changes. Refer to the explanations below when specifying the settings.



If you are using NetWare, AppleTalk, IPP, SSL Server or IPSec to connect to a network, you must enter an administrator ID and press **[OK]**. By default, the administrator ID is "3500".

If you are using NetWare, AppleTalk, IPP, SSL Server or IPSec to connect to a network, you must enter an administrator password and press **[OK]**. By default, the administrator password is "3500".



Set this item to On when you connect to a network using NetWare. In submenu, frame mode can be selected from Auto, 802.3, Ethernet-II, SNAP and 802.2.

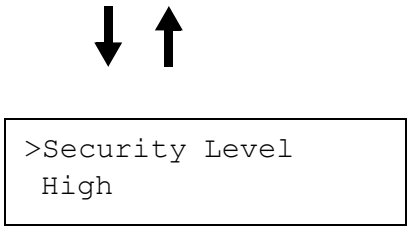
AppleTalk must be activated (On) for networking with Macintosh computers except Mac OS X 10.6.

Set this item to On when you connect to a network using IPP.

Set this item to On when you connect to a network using SSL Server. Submenu has items including DES, 3DES, AES, IPP over SSL and HTTPS.

Set this item to On when you connect to a network using IPSec.

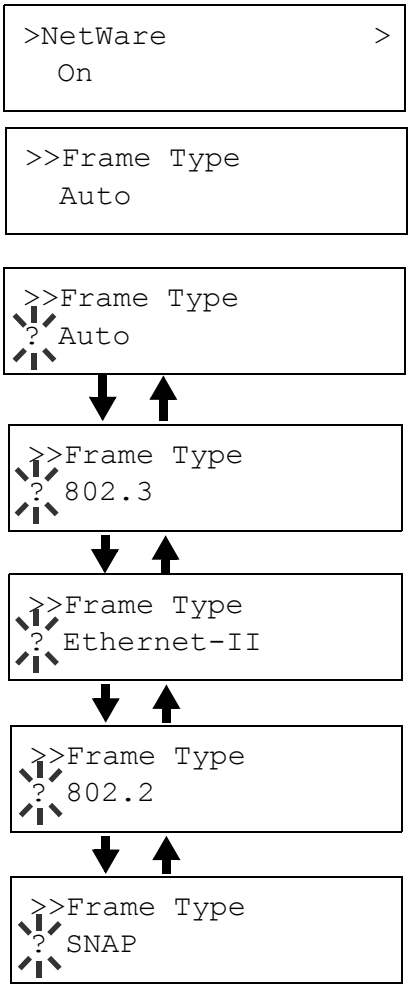
Continued on next page.



Set the Security Level to High.

NetWare

This section explains the procedure for enabling NetWare.



1 Enter the administrator ID and password. Then, if NetWare is set to Off, use △ or ▽ to select On and press **[OK]**.

2 Press ▷.

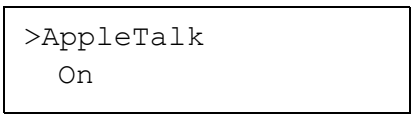
3 Press **[OK]**. A blinking question mark (?) appears. Each time you press △ or ▽, the selection changes.

4 Display the item you want to set and press **[OK]**.

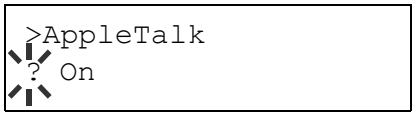
5 Press **[MENU]**. The display returns to Ready.

AppleTalk

This section explains the procedure for enabling AppleTalk.



1 Enter the administrator ID and password. Then, if `AppleTalk` is set to `Off`, use △ or ▽ to select `On`.



2 Press **[OK]**. A blinking question mark (`?`) appears.

3 Press **[OK]** again.

4 Press **[MENU]**. The display returns to `Ready`.

IPP

This section explains the procedure for enabling IPP.

1 Enter the administrator ID and password. Then, if `IPP` is set to `Off`, use △ or ▽ to select `On`.

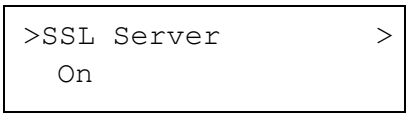
2 Press **[OK]**. A blinking question mark (`?`) appears.

3 Press **[OK]** again.

4 Press **[MENU]**. The display returns to `Ready`.

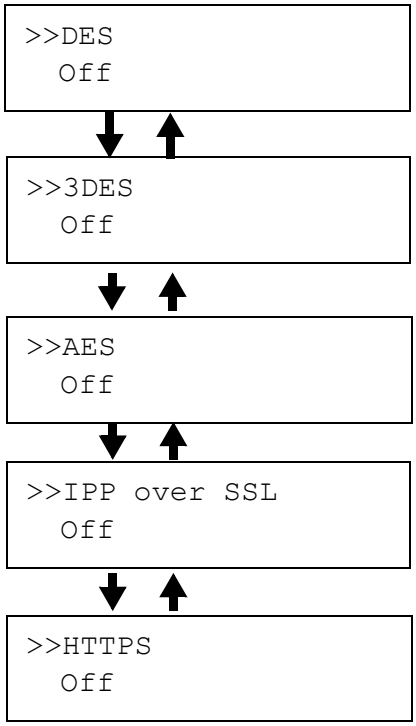
SSL Server

This section explains the procedure for enabling SSL Server.



1 Enter the administrator ID and password. Then, if `SSL Server` is set to `Off`, use △ or ▽ to select `On` and press **[OK]**.

2 Press ▷. Each time you press △ or ▽, the selection changes.



3 Display the item you want to set and press **[OK]**. A blinking question mark (`?`) appears.

4 Select `On` or `Off` using △ or ▽.

5 Press **[OK]**.

6 Press **[MENU]**. The display returns to `Ready`.

IPSec

This section explains the procedure for enabling IPSec.

1 Enter the administrator ID and password. Then, if `IPSec` is set to `Off`, use △ or ▽ to select `On`.

2 Press **[OK]**. A blinking question mark (`?`) appears.

3 Press **[OK]** again.

4 Press **[MENU]**. The display returns to `Ready`.

Security Level

```
>Security Level
 High
```

`Security Level` is primarily a menu used by service representative for maintenance work. There is no need for customers to use this menu.

Printing a Network Interface Status Page

You can print out a status page for the network interface. The network status page shows the network addresses, and other information under various network protocols about the network interface.

Adjust/Maintenance

Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- Restart Printer
- Service

IMPORTANT `Service` is primarily a menu used by service representative for maintenance work. There is no need for customers to use this menu.

1 Press **[MENU]**.

2 Press △ or ▽ repeatedly until `Adjust/Maintenance >` appears.

```
Adjust/Maintenance  >
```

3 Press ▷ while `Adjust/Maintenance >` is displayed.

4 Press △ or ▽ repeatedly until `>Service >` appears.

5 Press ▷.

6 Press △ or ▽ repeatedly until `>>Print Network Status Page` appears.

7 Press **[OK]**. A question mark (`?`) appears.

```
>>Print
 Network Status Page?
```

8 Press **[OK]**. `Processing` appears and a status page is printed out.

9 When printing ends, the display returns to `Ready`.

Installing the Printer Driver

Ensure the printer is plugged in and connected to the PC before installing the printer driver from the CD-ROM.

Installing the Software in Windows

If you are connecting this printer to a Windows PC, follow the next steps to install the printer driver. The example shows you how to connect your printer to a Windows Vista PC.

Note In Windows operating systems, you must be logged in with administrator rights to install the printer driver.

You can use either Express Mode or Custom Mode to install the software. Express Mode automatically detects connected printers and installs the required software. Use Custom Mode if you want to specify the printer port and select the software to be installed.

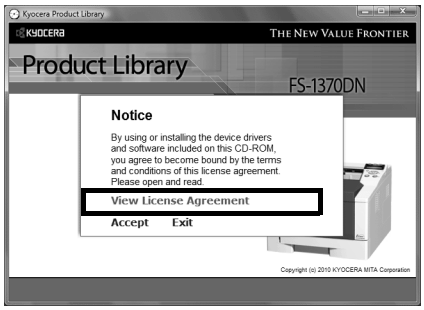
1 Turn on the computer and start up Windows.

If the Welcome to the Found New Hardware Wizard dialog box displays, select **Cancel**.

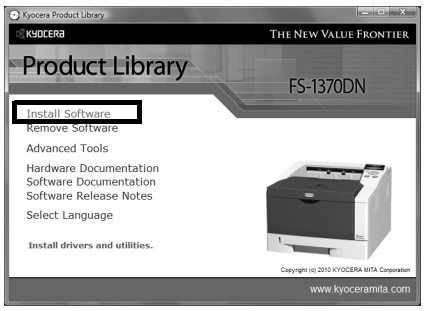
2 Insert the CD-ROM supplied with the printer into the optical drive of the PC. In Windows 7, Windows Server 2008 and Windows Vista, the user account control window may appear. Click **Allow**.

The installation program launches.

Note If the software install wizard does not launch automatically, open the CD-ROM window in Windows Explorer and double-click **Setup.exe**.


Kyocera Product Library
KYOCERA
THE NEW VALUE FRONTIER
Product Library
FS-1370DN
Notice
By using or installing the device drivers and software included on this CD-ROM, you agree to become bound by the terms and conditions of this license agreement. Please open and read.
View License Agreement
Accept
Exit
Copyright (c) 2010 KYOCERA MITA Corporation

3 Click **View License Agreement** and read the License Agreement. Click **Accept**.



4 Click **Install software**.

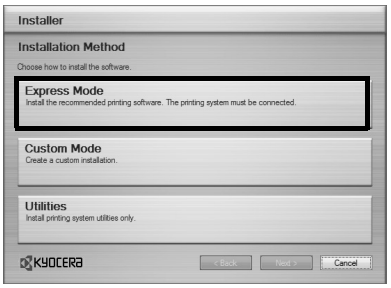
The software install wizard starts up.

From this point, the procedure differs depending on your version of Windows and your connection method. Proceed to the correct procedure for your connection type.

- Express Mode
- Custom Mode

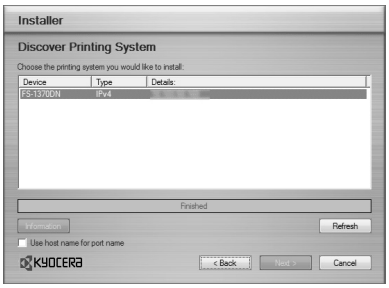
Express Mode

In Express Mode, the installer automatically detects the printer when it is turned on. Use Express Mode for standard connection methods.



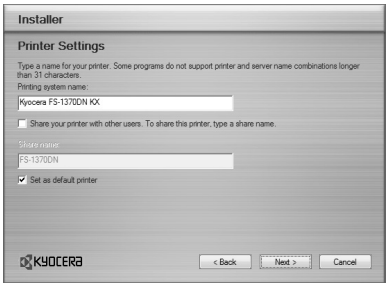
1 In the installation method selection window, select **Express Mode**. The print system detection window appears and the installer detects the connected printers. If the installer does not detect a print system, check that the print system is connected via USB or a network and that it is turned on. Then click **Refresh** to search print system again.

Note While the information shown in Windows Vista and Windows 7/Windows XP installation dialog boxes differs slightly, the installation procedure is the same.



2 Select the printer you want to be installed, and click **Next**.

Note If the Found New Hardware Wizard appears, click **Cancel**. If a hardware installation warning message appear, click **Continue**.


Installer
Printer Settings
Type a name for your printer. Some programs do not support printer and server name combinations longer than 31 characters.
Printing system name:
Kyocera FS-1370DN KX
Share your printer with other users. To share this printer, type a share name.
Share name:
FS-1370DN
Set as default printer
KYOCERA
< Back
Next >
Cancel

3 You can customize the print system name in the installation settings window. This will be the name displayed in the Printer window and in the printer lists displayed in applications. Specify whether to share the print system name or set the print system as an existing printer and then click **Next**.

IMPORTANT Step 3 only appears if the print system is connected via a network. It does not appear if the print system is connected via a USB at the time of the first installation.

4 A window appears in which you can check the settings. Check the settings carefully and then click **Install**.

Note If the Windows security window appears, click **Install this driver software anyway**.

5 A message appears saying that the printer has been installed successfully. Click **Finish** to exit the printer installation wizard and return the CD-ROM main menu.

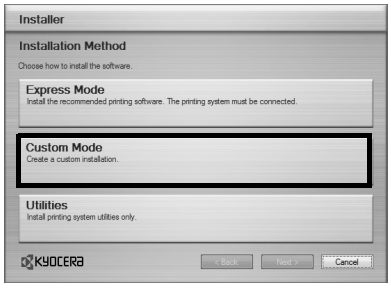
If the device setup dialog box appears after you click **Finish**, you can specify the settings for items such as optional features installed in the print system. You can also specify the device settings after you exit the installation. For details, refer to Device Settings in the printer driver operation manual on the CD-ROM.

This completes the printer driver installation procedure. Follow the on-screen instructions to restart the system, if required.

Custom Mode

Use Custom Mode if you want to specify the printer port and select the software to be installed.

For example, if you do not want fonts installed on your computer to be replaced, select **Custom Mode** and deselect the **Fonts** checkbox in the utility tab.



1 Select **Custom Mode**.

2 Following the instructions in the install wizard window, select the software packages to be installed and the specify the port, etc.

For details, refer to *Custom Installation* in the printer driver operation manual on the CD-ROM.

Installation on a Macintosh

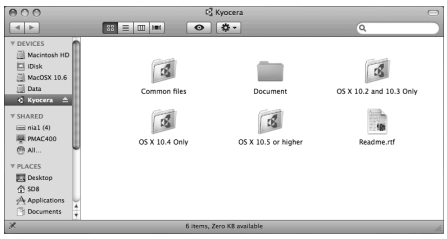
This section explains how to install the printer driver in Mac OS X 10.6.

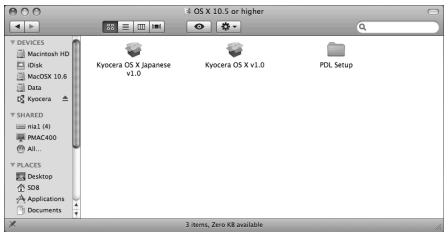
1 Turn on the printer and the Macintosh.

2 Insert the included CD-ROM (**Product Library**) into the CD-ROM drive.

3 Double-click the CD-ROM icon.

4 Double-click either **OS X 10.2 and 10.3 Only, OS X 10.4 Only** or **OS X 10.5 or higher** depending on your Mac OS version.





5 Double-click **Kyocera OS X x.x**.

6 The printer driver installation program starts up.

7 Choose **Select Destination**, **Installation Type** and then install the printer driver as directed by the instructions in the installation software.

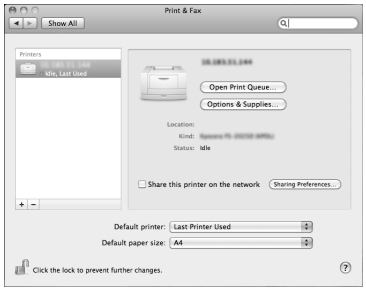
Note In addition to **Easy Install**, the **Installation Type** options include **Custom Install**, which allows you to specify the components to be installed.

IMPORTANT In the Authenticate screen, enter the name and password used to log in to the operating system.

This completes the printer driver installation. Next, specify the print settings.

If an IP or AppleTalk connection is used, the settings below are required. If a USB connection is used, the printer is automatically recognized and connected.

8 Open **System Preferences** and click **Print & Fax**.

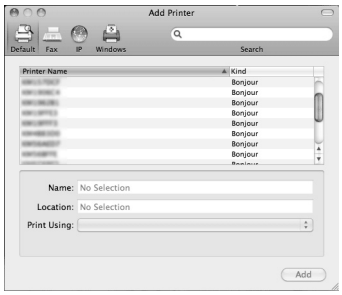


9 Click the plus symbol (**+**) to add the installed printer driver.

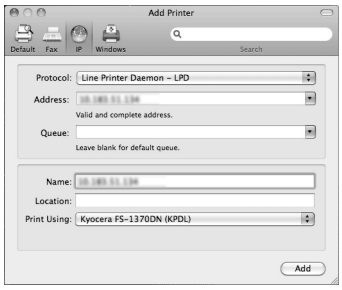
10 Click the IP icon for an IP connection or the AppleTalk icon for an AppleTalk connection and then enter the IP address and printer name.

When you click the AppleTalk icon for an AppleTalk connection, enter the printer name.

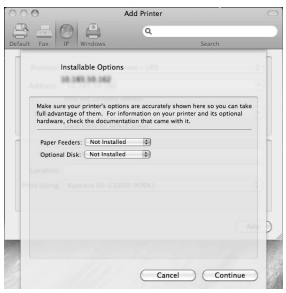
Note AppleTalk icon is not displayed on Mac OS X 10.6.



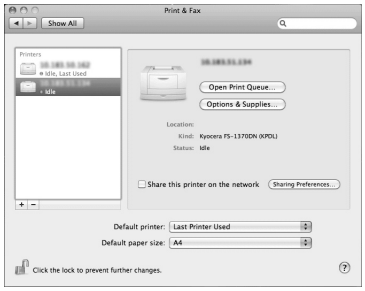
For a Bonjour connection, click the default icon and select the printer for which Bonjour appears in Connection.



11 Select the installed printer driver and click **Add**.


Add Printer
Default
Fax
IP
Windows
Search
Installable Options
Make sure your printer's options are accurately shown here so you can take full advantage of them. For information on your printer and its optional hardware, check the documentation that came with it.
Paper Feeders: Not Installed
Optional Disk: Not Installed
Cancel
Continue

12 Select the options available for the printer and click **Continue**.



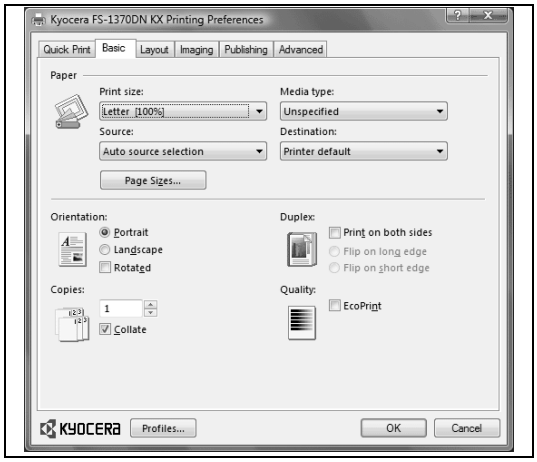
13 The selected printer is added. This completes the printer setup procedure.

Printing

This section explains the printing procedure from an application software. You can specify the printing settings from each tab on KX Driver. KX Driver is stored in the CD-ROM (Product Library). For more information, refer to the *Printer Driver User Guide* in the CD-ROM.

About KX Driver

KX Driver consists of the following tabs.



Quick Print

Use this tab to define basic print options into group profiles that can be accessed quickly and easily.

Basic

Use this tab to select the page size and orientation. The paper source and duplex printing are also selected.

Layout

Use to create multiple pages on a single sheet of paper. Also contains the scaling option.

Imaging

Select this tab to change the print quality, and the font or graphic settings.

Publishing

Use to add covers or page inserts to your output. You can also produce a set of transparencies with a blank or printed sheet interleaved using Transparency Interleaving.

Advanced

Use to set up and add watermarks to your output. This tab incorporates the PRESCRIBE commands into the output using the Prologue/Epilogue feature.

Printing from Application Software

The steps required to print a document created with an application are explained below. You can select the printing paper size.

Note You can also select the various settings by clicking **Properties** to open the Properties dialog box.

1. Load the paper required into the paper cassette.
2. From the application **File** menu, select **Print.** The Print dialog box appears.
3. Click the drop-down list of printer names. All the installed printers are listed. Click the name of the printer.

4 Use Number of copies to enter the number of copies required. Up to 999 copies can be printed. For Microsoft Word, we recommend that you click **Options and specify Use printer settings** for the Default tray.

5 To start printing, click **OK**.

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function. It also allows you to specify and modify settings for printers not included in the KX Driver.

The Status Monitor is installed automatically during KX Driver installation.

Accessing the Status Monitor

Use either of the methods listed below to launch the Status Monitor.

- Launch when printing starts:
  When you specify a printer and start a print job, one Status Monitor is launched for each printer name. If Status Monitor startup is requested from multiple printers, Status Monitors are launched for each printer that issues the request.
- Launch from the KX Driver properties:
  Click **Printing Preferences** in Properties dialog box. Select Advanced tab and click **Status Monitor** to open Status Monitor window. Click **Open Status Monitor** to launch the Status Monitor.

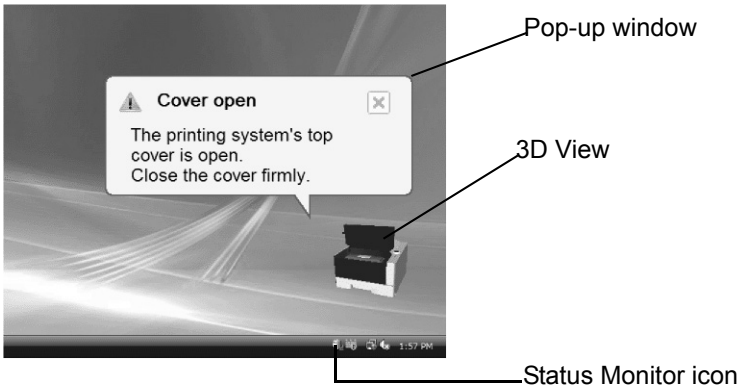
Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

- Exit manually:
  Right-click the Status Monitor icon in the taskbar and select **Exit** in the menu to exit the Status Monitor.
- Exit automatically:
  The Status Monitor automatically shuts down after 5 minutes if it is not being used.

Screen Overview

The screen overview of the Status Monitor is as follows.



Pop-up window

If an information notification event occurs, a pop-up window appears. This window only appears when the 3D View is open on the desktop.

3D View

This shows the status of the monitored printer as a 3D image. You can choose whether to show or hide the 3D view from the menu displayed when you right-click the Status Monitor icon.

If an information notification event occurs, the 3D view and an alert sound are used to notify you. For information on the sound notification settings, refer to ***Status Monitor Settings*** on page ***3-22***.

Status Monitor icon

The Status Monitor icon is displayed in the taskbar notification area when the Status Monitor is running. When you position the cursor over the icon, the printer name appears.

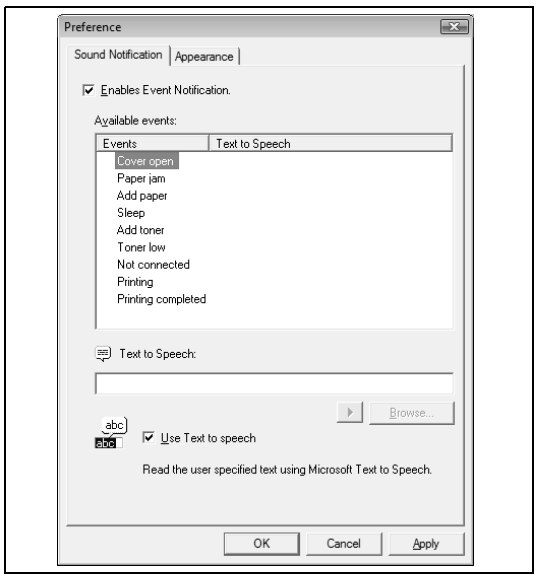
Status Monitor Settings

The Status Monitor has two tabs to configure its settings. Use the **Preference** option to set up the Status Monitor.

Sound Notification Tab

The Event Notification tab contains the following items.

IMPORTANT To confirm the settings on Sound Notification tab, the computer requires the sound capabilities such as sound card and speaker.



Enable Event Notification

Select to enable or disable monitoring the events in Available events.

Sound file

A sound file can be selected if you require an audible notification. Click **Browse** to search for the sound file.

Use Text to speech

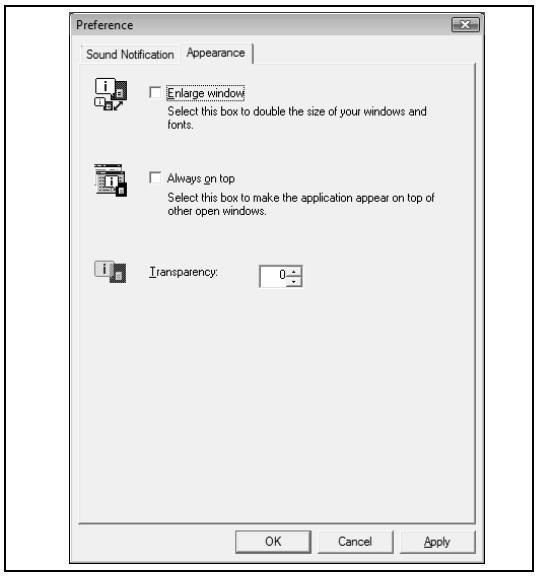
Select this check box to enter text you would like to hear played for events. Although a sound file is unnecessary, this function is applicable for Windows XP or later.

To use this function, follow these steps.

1. Select **Enable Event Notification**.
2. Select an event or sound file to use with the text to speech function in Available events.
3. Click **Browse** to notify the event by sound file.

   Note The available file format is WAV.

   Select **Use Text to speech** to speech the text entered in *Text to speech* box when an event occurred.
4. Click ▸ to confirm the sound or text is played correctly.



Appearance Tab

The Appearance tab is contains the following items.

Enlarge window

Doubles the size of the Status Monitor window.

Always on top

Positions the Status Monitor in front of other active windows.

Transparency

Displays the Status Monitor as a transparent window.

Uninstalling Software (Windows PC)

The software can be uninstalled (removed) using the CD-ROM (Product Library) supplied with the printer.

IMPORTANT On Macintosh computers, because the printer settings are specified using a PPD (PostScript Printer Description) file, the software cannot be uninstalled using the CD-ROM (Product Library).

1. Exit all active software applications.
2. Insert the enclosed CD-ROM (Product Library) into the CD-ROM drive. In Windows 7, Windows Server 2008 and Windows Vista, the user account control window may appear. Click **Allow**.
3. Following the procedure used to install the printer driver, click **Remove Software**. The Kyocera Uninstaller wizard appears.
4. Select the software package to remove.
5. Click **Uninstall**.

   Note When KMnet Viewer or KM-NET for Direct Printing is installed, separate uninstallers are launched for each application. Proceed with the uninstallation steps for each application as directed by the on-screen instructions.

   The uninstaller starts.
6. When Uninstall complete screen appears, click **Finish**.
7. If Restart Your System screen appears, select whether you restart your computer or not, click **Finish**.

   Note The software can be uninstalled from the Start menu.

   Start the uninstaller by clicking **start** > **All Programs** > **Kyocera** > **Uninstall Kyocera Product Library**, and uninstall the software.

4 Maintenance

This chapter explains how to replace the toner container and clean the printer.

General Information **4-2**
Toner Container Replacement **4-2**
Cleaning the Printer **4-6**
Prolonged Non-Use and Moving of the Printer **4-9**

General Information

This chapter describes basic maintenance tasks you can perform for the printer. You can replace the toner container according to the printer's display.

Also, the internal parts need periodic cleaning.

Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The message identifies the toner status at two stages of toner usage.

- When the printer becomes low on toner, the message `Toner low` is displayed. Note the replacement is not always necessary at this stage.
- If you ignore the above status and continue printing, the message `Replace toner Clean printer` is displayed just before the toner is used up. The toner container must then be replaced immediately.

In either case, replace the toner container.

Frequency of Toner Container Replacement

Assuming an average toner coverage of 5 % and EcoPrint mode turned off, the toner container will need replacing approximately once every 7,200 pages.

You can print a status page to check how much toner remains in the toner container. The Toner Gauge in the consumables status section on the status page shows a progress bar, which roughly represents how much toner is left in the toner container.

Starter Toner Container

The toner container packed with the new printer is a starter toner container. The starter toner container lasts an average of 2,300 pages.

Toner Kits

For best results, we recommend that you only use genuine Kyocera Parts and Supplies.

A new toner kit contains the following items:

- Toner Container
- Plastic waste bag for old toner container
- Installation Guide

Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Replacing the Toner Container

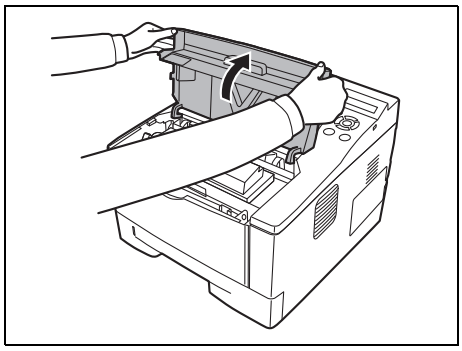
This section explains how to replace the toner container.

> **CAUTION** Do not attempt to incinerate the Toner Container. Dangerous sparks may cause burns.

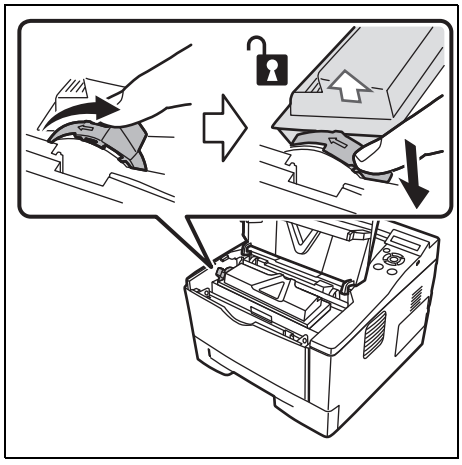
IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks) away from the toner container. This is to avoid damaging media by the magnetism of toner.

IMPORTANT Kyocera Mita Corporation is not liable against any damages or problems arising from the use of toner containers other than those designated as original Kyocera toner containers. For optimum performance, it is also recommended to use only the Kyocera toner containers which are specifically intended for use in your country or region. If the toner container for another destinations is installed, the printer will stop printing.

Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.

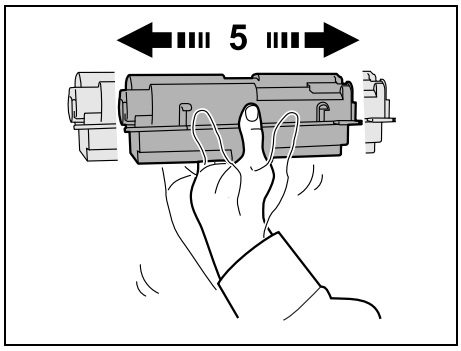


1 Open the top cover.

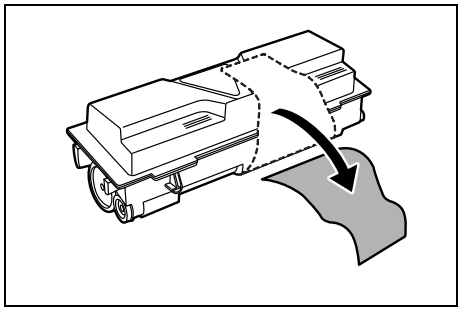


2 Turn the lock lever to the unlock position. Push the lock lever to the position marked by the arrow and pull out the toner container.

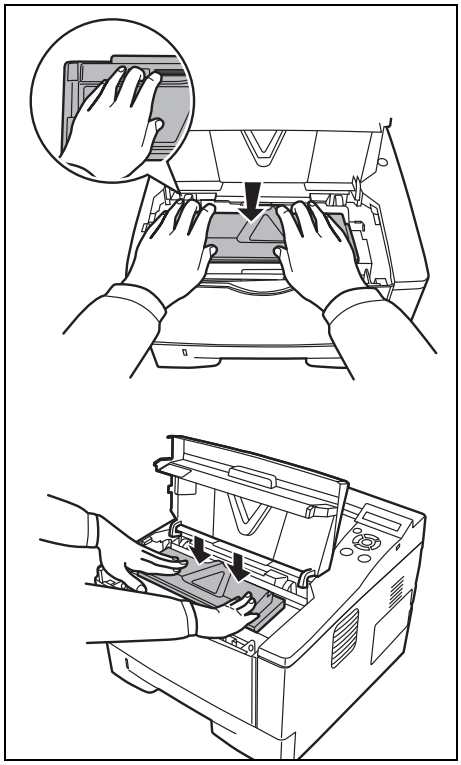
Note Put the old toner container in the plastic bag (supplied with the new toner kit) and discard it later according to the local code or regulations for waste disposal.



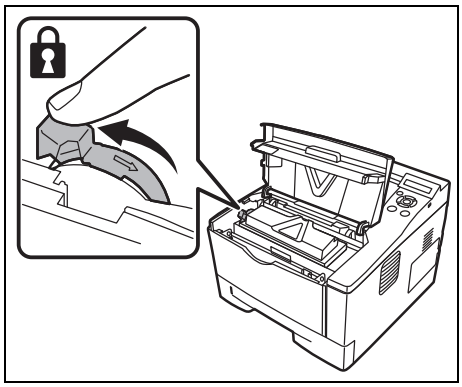
3 Take the new toner container out of the toner kit. Shake the new toner container at least 5 times as shown in the figure in order to distribute the toner evenly inside the container.



4 Remove the label from the toner container.



5 Install the new toner container in the printer. Push firmly on the top of the container at the positions marked PUSH, until you hear a click.



6 Turn the lock lever to the lock position.

7 Close the top cover.

Maintenance Kit Replacement

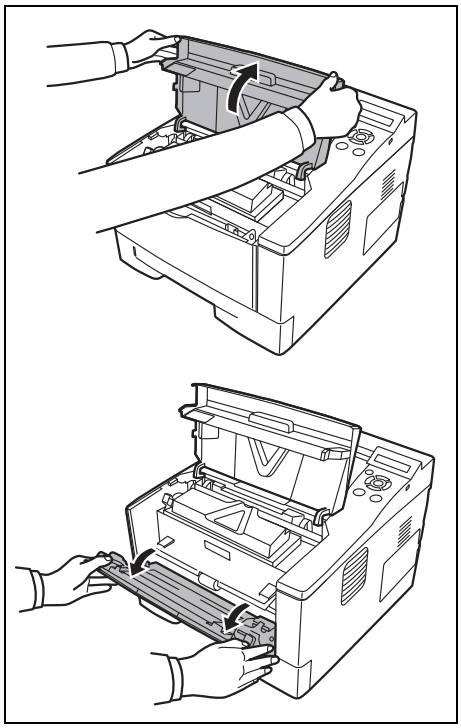
When the machine prints 100,000 pages, a message is displayed indicating that the maintenance kit should be replaced. The maintenance kit must then be replaced immediately.

To replace the maintenance kit, contact your service technician.

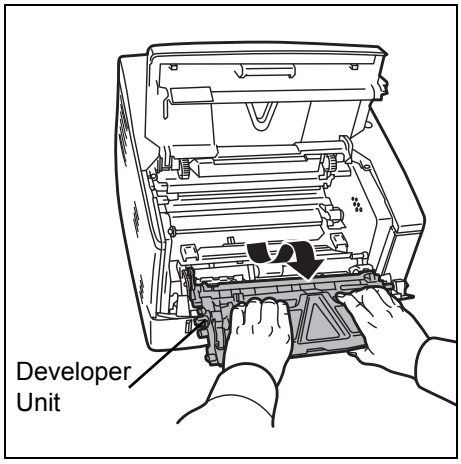
IMPORTANT When the waste toner in the drum unit is almost full, `Waste toner near full` is displayed. Replace the maintenance kit.

Cleaning the Printer

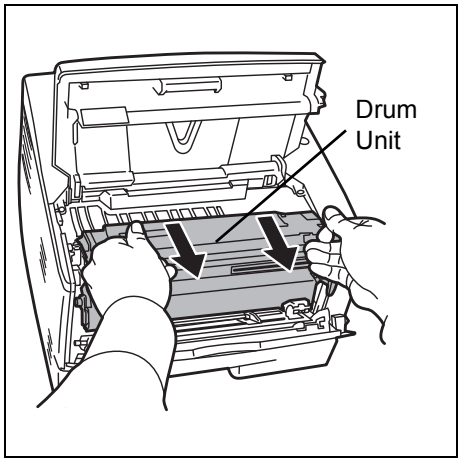
To avoid print quality problems, the interior of the printer must be cleaned with every toner container replacement.



1 Open the top cover and front cover.

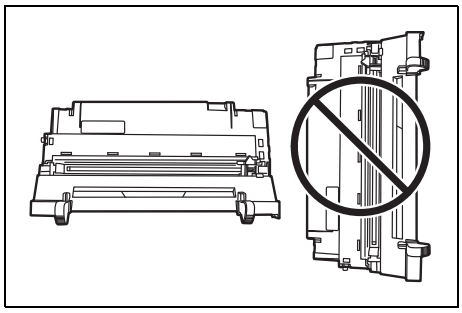


2 Lift the developer unit together with the toner container out of the printer.



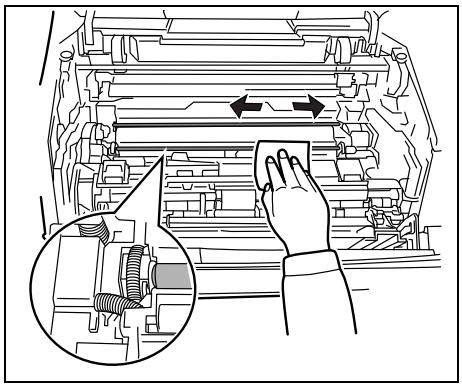
3 Remove the drum unit from the printer by holding the green levers with both hands.

Note The drum unit is sensitive to light. Never expose the drum unit to light for more than five minutes.



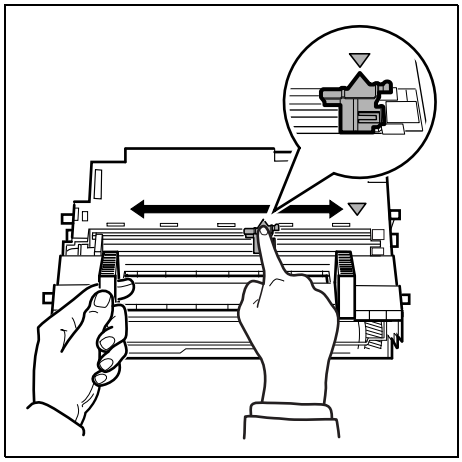
4 Place the drum unit flat on a clean, level surface.

IMPORTANT Do not place the drum unit on end.



5 Use a clean, lint free cloth to clean dust and dirt away from the metal registration roller.

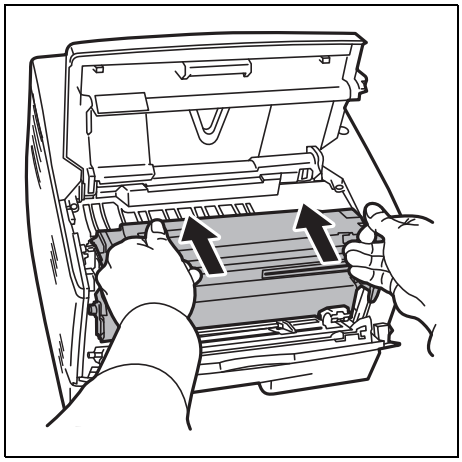
IMPORTANT Take care not to touch the transfer roller (black) during cleaning.



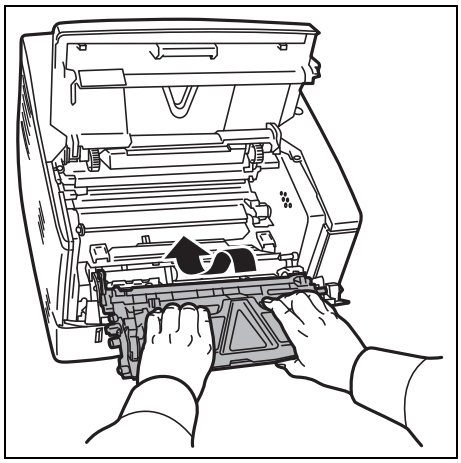
6 On the drum unit, slide the charger cleaner (green) back and forth 2 or 3 times to clean the charger wire, then return it to its original position (CLEANER HOME POSITION).

IMPORTANT Remove the fixing tape on the charger cleaner in case of the first cleaning.

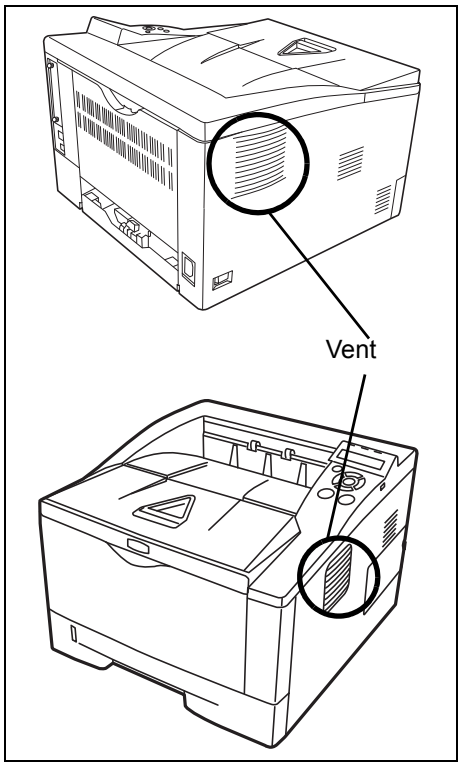
After cleaning, make sure you restore the charger cleaner to its home position.



7 When cleaning is complete, return the drum unit to the original position.



8 Return the developer unit to its position, aligning the guides at both ends with the slots in the printer. Then, close the front cover and top cover.



9 Use a lint free cloth to clean dust and dirt away from the vent on the left and the right side of the machine.

Prolonged Non-Use and Moving of the Printer

Prolonged Non-use

If you ever leave the printer unused for a long period of time, remove the power cord from the wall outlet.

We recommend you consult with your dealer about the additional actions you should take to avoid possible damage that may occur when the printer is used next time.

Moving the Printer

When you move the printer:

- Move it gently.
- Keep it as level as possible to avoid spilling toner inside the printer.
- Be sure to consult a service technician before attempting long distance transportation of the printer.

WARNING If you ship the printer, remove and pack the developer unit and drum unit in a plastic bag and ship them separately from the printer.

5 Troubleshooting

This chapter explains how to handle printer problems, understand error messages, and clear paper jams.

General Guidelines **5-2**
Print Quality Problems **5-3**
Error Messages **5-5**
Ready, Data, and Attention Indicators **5-9**
Clearing Paper Jams **5-10**

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service repairs.

Symptom	Check Items	Corrective Actions
Print quality is poor.	–	Select half speed mode using the printer driver.
		Refer to ***Print Quality Problems*** on page ***5-3***.
Text is missing on the Windows test page.	–	This is a problem specific to the Windows OS. It is not a printer problem. It does not affect print quality.
Paper is jammed.	–	Refer to ***Clearing Paper Jams*** on page ***5-10***.
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check the power cord is property plugged into power outlet.	Connect both ends of the power cord securely. Try replacing the power cord. Refer to *Installation Guide* for more information.
	Check the power switch is in the On (|) position.	Refer to the *Installation Guide* for more information.
The printer prints a status page but data from the computer is not being printed.	Check program files and application software.	Try printing another file or using another print command. If the problem occurs with a specific file or application, check the printer settings for that application.
	Check the interface cable.	Connect both ends of the interface cable securely. Try replacing the printer cable. Refer to the *Installation Guide* for more information.
Vapor is emitted near the top tray.	Check if the temperature is low near the location of the printer, or if the paper that is being used has been exposed to humidity.	Depending on the operating environment of the printer and the condition of the paper, heat generated during printing can evaporate water moisture in the printed paper, emitting vapor from the printer. In this case, printing can be continued without any problem. To correct this, increase the temperature in the room, and use paper that has been stored in a dry place.

Tips

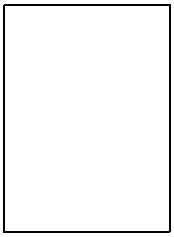
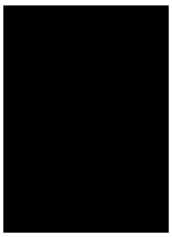
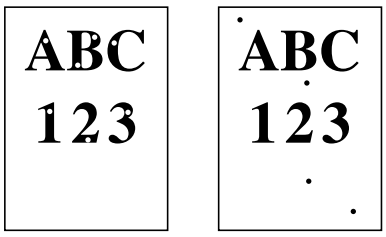
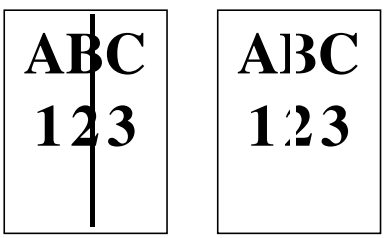
Printer problems may be solved easily by following the tips below. When you have encountered a problem that cannot be solved following the guidelines above, try the following:

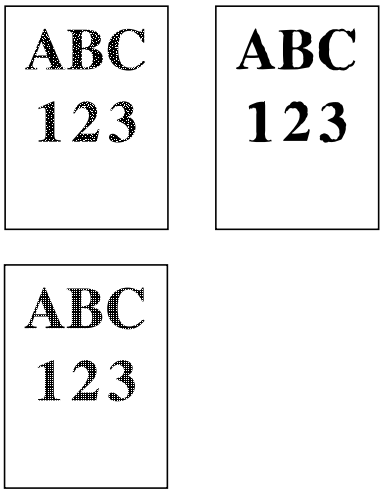
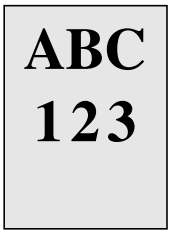
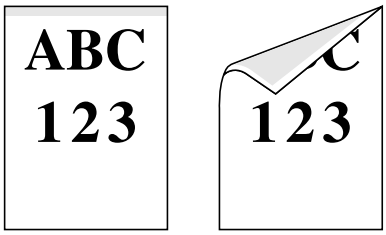
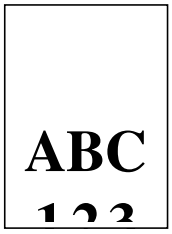
- Restart the computer you are using to send print jobs to the printer.
- Obtain and use the latest version of the printer driver. The latest versions of printer drivers and utilities are available at: http://www.kyoceramita.com/download/.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service representative.

Printed Results	Corrective Action
Completely blank printout 	Check the toner container. Open the front cover and check that the toner container is correctly installed in the printer. Refer to ***Toner Container Replacement*** on page ***4-2***.
Full single-color printout 	Contact your service representative.
Dropouts, stray dots 	Drum or developer unit may be damaged. If the problem is not solved even after printing several pages, call for service representative.
Vertical streaks 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Clean the charger wire. Refer to ***Cleaning the Printer*** on page ***4-6***. Check the charger cleaner of the drum unit is in its original position. Refer to ***Cleaning the Printer*** on page ***4-6***.

Printed Results	Corrective Action
Faint or blurred printing 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Clean the charger wire. Refer to ***Cleaning the Printer*** on page ***4-6***.
Gray background 	Check the toner container and if necessary replace. Refer to ***Toner Container Replacement*** on page ***4-2***. Check the developer unit and drum unit are installed correctly. Refer to ***Cleaning the Printer*** on page ***4-6***.
Dirt on the top edge or back of the paper 	If the problem is not solved even after printing several pages, clean the registration roller. Refer to ***Cleaning the Printer*** on page ***4-6***. If the problem is not solved after cleaning, call for service representative.
Printing incomplete or out of position 	Check that the printing settings are correct in the application software and the printer driver. Check whether the problem is being caused by a PRESCRIBE command error. If the problem occurs only with a specific file or program, the most likely cause is an error in a parameter to a command or command syntax.

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself.

If `Call service` or `Error.Power off.` is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action
`Add paper MP Tray`	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders).This message is displayed alternately with messages indicating the printer status, such as, `Ready`, `Please wait`, and `Processing`.
`Call service` `F###`	`F###` represents a controller error (**#=**`0`, `1`, `2`, ...). Call for service representative. The printer does not operate when this message is displayed.
`Call service` `####:0123456`	`####` represents a mechanical error (**#=**`0`, `1`, `2`, ...). Call for service representative. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. `0123456`.
`Canceling data`	Displayed when data is being canceled.
`Cassette # not loaded`	The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 4 (bottom).
`Clean printer` `Press GO`	Please clean the inside of the printer. Refer to ***Cleaning the Printer*** on page ***4-6***. This message will be displayed when replacing the toner container after the message `Replace toner Clean printer` is displayed. After cleaning the inside of the printer, press **[GO]** and the printer will be ready for printing.
`Close top cover`	The top cover of the printer is open. Close the printer top cover.
`Device busy`	This message is displayed when `Remove Device` was selected while a USB flash memory was being used. The previous screen is displayed again 1 or 2 seconds.
`Duplex disabled` `Press GO`	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press **[GO]** to print onto one-side of the paper only. You can select an alternative paper size and type by pressing the △ or ▽. You can also press **[MENU]** and change the tray setting inside the menu, which will automatically cancel the error and output resumes. At the same time **[ATTENTION]** indicator will light up and **[READY]** indicator will start flashing.
`Error.Power off.` `F###`	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
`Error.Power off.` `F000`	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.

Message	Corrective Action
Format error Memory card	The CF card inserted in the printer is not formatted, and therefore cannot be read or written. To format a CF card, follow the procedure in *Memory Card (Using the memory card)* section in the *Advanced Operation Guide*.
Install MK	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 100,000 pages of printing and requires professional servicing. Contact your service technician.
KPDL error ## Press GO	Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display >>Error Report from the menu system, and select On. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
Load Cassette # (A4)/(PLAIN)	The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press **[GO]** to resume printing. If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Load MP Tray (A4)/(PLAIN)	There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press **[GO]** to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.) If you want to print from a different paper source, press △ or ▽ to display Use alternative? and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings > appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Low security	This message is displayed when Low was selected in Security Level.
Memory overflow Press GO	The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press **[GO]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
Memory card error ## Press GO	A CompactFlash (CF) card error has occurred. Look at the error code given in place of ## and refer to ***CompactFlash (CF) Card and USB Flash Memory Errors*** on page ***5-8***. To ignore the CF card error, press **[GO]**.
Memory card error 20	The CompactFlash (CF) card is accidentally inserted and removed from the printer's slot during the printer is on. Turn the power switch off and then back on again.
Missing developer unit	The developer unit is either not installed or incorrectly inserted. Insert the developer unit securely.
No multi copies Press GO	Multiple copies cannot be printed because the RAM disk is disabled or the hard disk is not installed. There is no available RAM disk or hard disk space. Delete unnecessary files. Press **[GO]** to print error report.

Message	Corrective Action
Original toner installed	Displayed when the installed toner is the original Kyocera product.
Paper jam #####################	A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, refer to ***Clearing Paper Jams*** on page ***5-10***.
Paper path error	When one or more optional feeders are installed, this message will appear if any of the paper feeders or the printer cassette upper than the selected one is not properly closed.
Print overrun Press GO	The print job transferred to the printer was too complex to print on a page. Press **[GO]** to resume printing. (A page break may be automatically inserted in some places.) You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
RAM disk error ## Press GO	A RAM disk error has occurred. Look at the error code given in place of ## and refer to ***Storage Error Codes*** on page ***5-8***. To ignore the RAM disk error, press **[GO]**.
Replace toner Clean printer	Toner has run out in the toner container. Replace the toner container using a new toner kit. The printer does not operate when this message is displayed.
Toner low	Replace the toner container using a new toner kit.
Unknown toner installed	Displayed when the installed toner is not the original Kyocera product. Install original Kyocera toner.
Unknown toner PC	This message is displayed if the installed toner container's regional specification does not match the printer's. The printer will stop printing. Use only the Kyocera toner containers which are specifically intended for use in your country or region.
USB memory error ## Press GO	An error has occurred in the USB flash memory. Look at the error code given in place of ## and refer to ***CompactFlash (CF) Card and USB Flash Memory Errors*** on page ***5-8***. To return the printer to the print-ready status, press **[GO]**.
Use alternative? Cassette 1	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to *Paper Feed Mode (Setting the paper feed source)* section in the *Advanced Operation Guide*.
Waste toner near full	The waste toner in the drum unit is almost full. Replace the maintenance kit.
Wrong ID	The ID or Password entered for the Security or Administrator function is not correct. Check the ID or Password. For more information, refer to *Security* section and *Admin (Administrator settings)* section in the *Advanced Operation Guide*.
Wrong Password	The password does not match the password set. Enter the correct password. For more information, refer to *Security* section and *Admin (Administrator settings)* section in the *Advanced Operation Guide*.

Storage Error Codes

CompactFlash (CF) Card and USB Flash Memory Errors

Code	Meaning
01	The printer does not support the CF card inserted, or the CF card is broken. Insert the correct CF card. For more information, refer to *Memory Card (Using the memory card)* section in the *Advanced Operation Guide*.
02	The CF card is not installed. Recheck the requirements for using the system and the CF card.
03	The CF card is write protected. Check the CF card's status.
04	There is not enough space in the CF card. Delete unnecessary files or use a new CF card.
05	The specified file is not on the CF card or the USB flash memory.
06	There is not enough printer memory to support the CF card system. Increase printer memory.
50	The USB flash memory is write protected, or invalid. Check the USB flash memory's status.

RAM Disk Errors

Code	Meaning
01	Format error. Try turning the power off and on again.
02	RAM disk mode is Off. Turn RAM disk mode On from the operation panel.
04	No disk space. Purge unnecessary files.
05	Specified file is not on disk.
06	Insufficient printer memory to support the RAM disk system. Expand printer memory.

Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

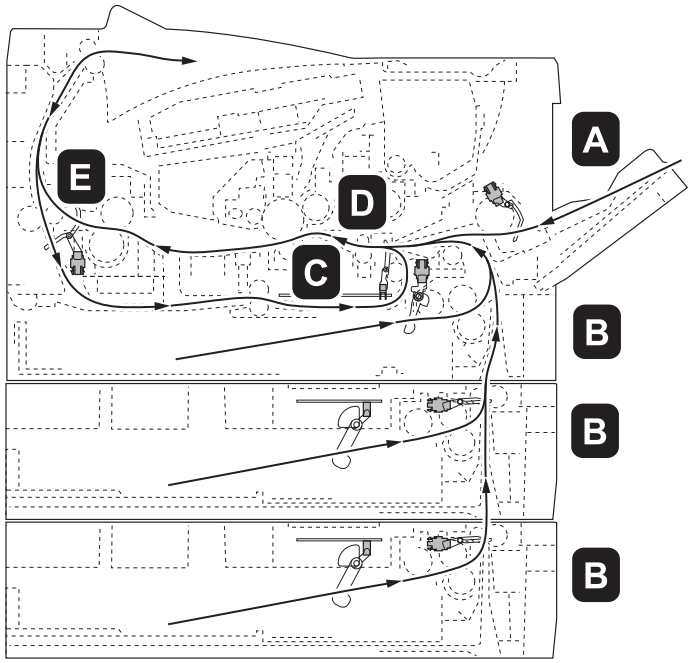
Indicator	Description
Ready	**Flashing.** Indicates an error that you can resolve. Refer to ***Error Messages*** on page ***5-5***. **On.** Indicates that the printer is ready. The printer prints the data it receives. **Off. [Cancel]** was pressed during `Ready` is displayed. Data can be received but will not be printed. To resume printing, press **[Cancel]** again. Printing is canceling. Also, indicates when paper jam occurred, toner has run out, cover is open, and so on.
Data	**Flashing.** Indicates that a data is being received. **On.** Indicates either that data received is being processed before printing starts, or that data received is being written to or read from a CompactFlash (CF) card, RAM disk, or USB flash memory.
! Attention	**Flashing.** Indicates that the printer is ready to print when `Please wait` is displayed. Also indicates that the corresponding paper cassette is not installed. Indicates that the printer requires maintenance such as adding paper, cleaning the printer, replacement of maintenance kit, preparing the toner container, formatting of CF card. **On.** Indicates when paper jam occurred, toner has run out, cover is open, and so on. If the message includes `Press GO`, press **[GO]** to resume printing. The ID or Password entered for the Security, Administrator, or Job Accounting function is not correct. Check the ID or Password, and enter the correct ID or password.

Clearing Paper Jams

If paper jams in the paper transport system, or no paper sheets are fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. Status Monitor or COMMAND CENTER can indicate the location of the paper jam (the component where the paper jam has occurred). Remove the paper jam. After removing the paper jam, the printer will resume printing.

Possible Paper Jam Locations

The figure below shows the printer's paper paths including the optional paper feeder. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper jam message	Paper jam location	Description	Reference page
`Paper jam` `MP Tray`	A	Paper jam at the MP tray.	*page **5-12***
`Paper jam` `Cassette 1`	B	Paper jam at the paper cassettes. The cassette number can be 1.	*page **5-13***
`Paper jam` `Duplexer`	C	Paper jam inside the duplexer.	*page **5-14***

Paper jam message	Paper jam location	Description	Reference page
Paper jam Printer	D	Paper jam inside the printer.	*page **5-15***
Paper jam Rear Cover	E	Paper jam at the rear cover.	*page **5-17***

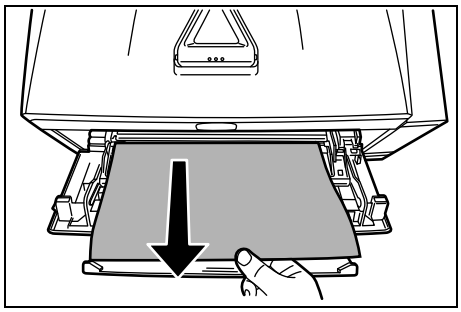
General Considerations for Clearing Jams

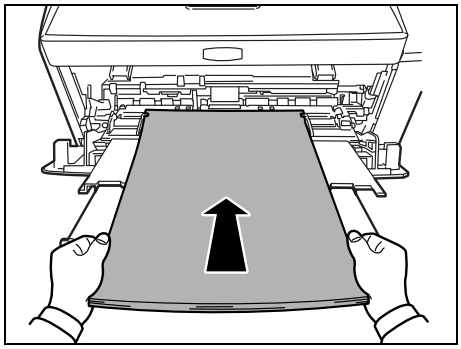
Bear in mind the following considerations when attempting paper jam removal:

CAUTION When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the paper jam recovery.

- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, or flip the paper stack over. The printer may have problems if paper jams recur after the paper is replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed, depends on the location of the paper jam.

MP Tray



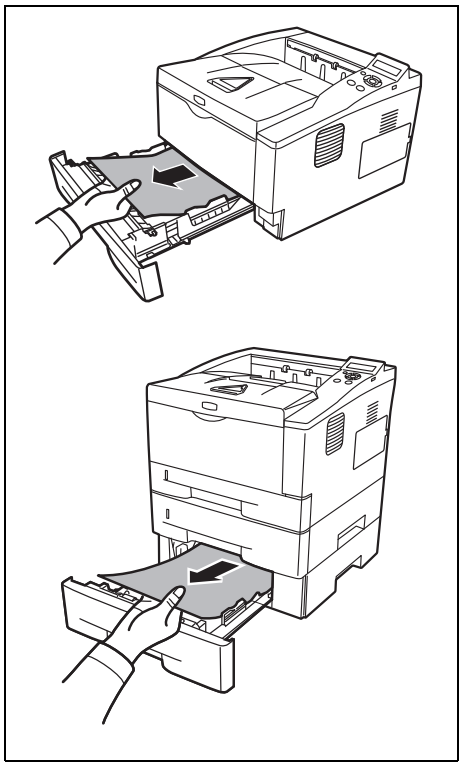


1 Remove the paper jammed at the MP tray.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to ***Inside the Printer*** on page ***5-15***.

2 Reload the MP tray. Open and close the top cover to clear the error and the printer warms up and resumes printing.

Paper Cassette/Paper Feeder



1 Pull out the cassette or optional paper feeder.

2 Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to ***Inside the Printer*** on page ***5-15***.

Note Check to see if paper is loaded correctly. If not, reload the paper.

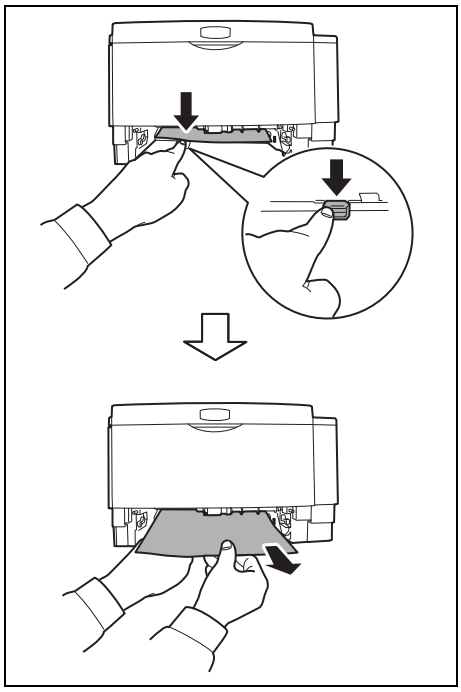
3 Push the cassette back in securely. The printer warms up and resumes printing.

Duplexer

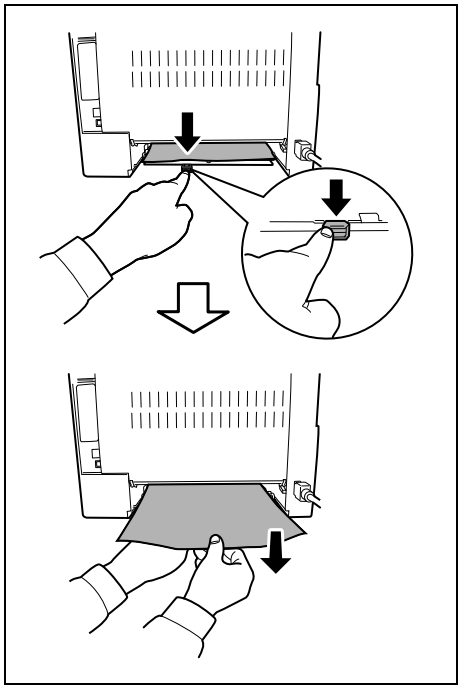
Paper is jammed in the duplexer. Remove the jammed paper using the procedure given below.

1 Pull the paper cassette all the way out of the printer.

2 Open the duplexer's cover in front of the printer and remove any jammed paper.

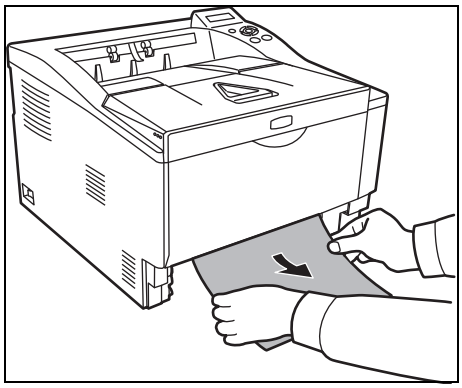


Open the duplexer's cover at the rear of the printer and remove any jammed paper.



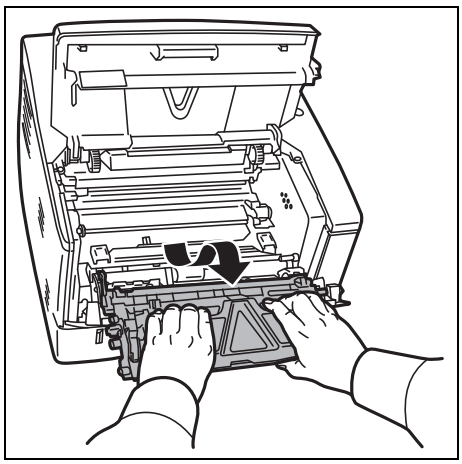
3 Push the cassette back in securely, and open and close the top cover to clear the error. The printer warms up and resumes printing.

Inside the Printer

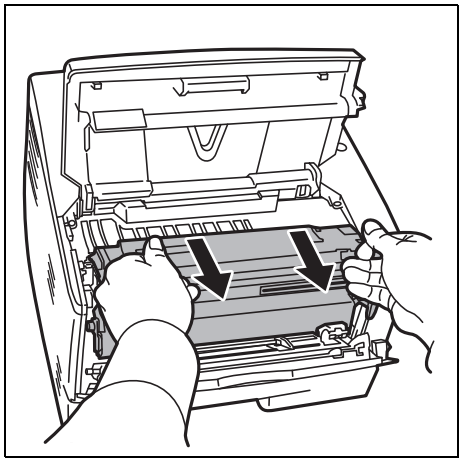


1 Pull the paper cassette all the way out of the printer. Remove any partially fed paper.

IMPORTANT Do not try to remove paper that has already been partially fed. Proceed to step 2.



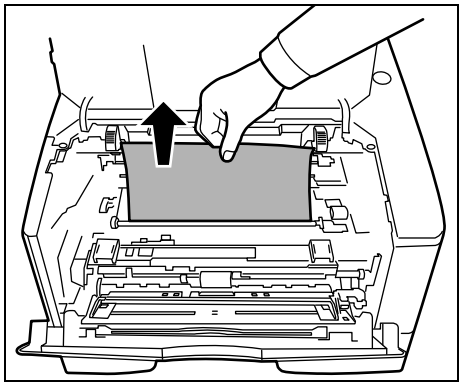
2 Open the top cover and front cover, and lift the developer unit together with the toner container out of the printer.



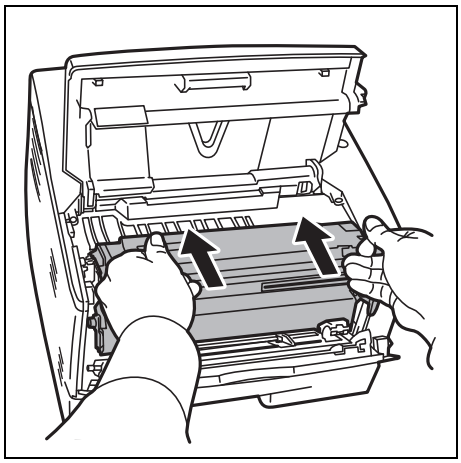
3 Remove the drum unit from the printer by holding the green levers with both hands.

CAUTION The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.

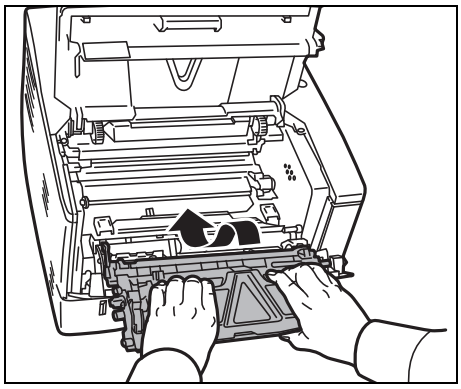
Note The drum is sensitive to light. Never expose the drum unit to light for more than five minutes.



4 If the jammed paper appears to be pinched by rollers, pull it along the normal running direction of the paper.

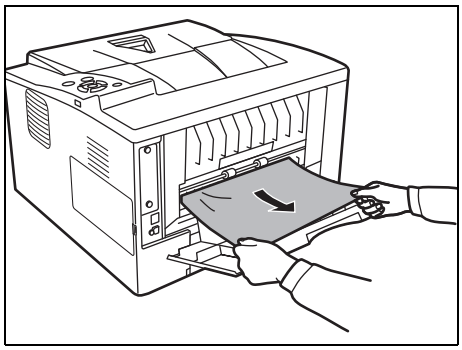


5 Return the drum unit to its position, aligning the guides at both ends with the slots in the printer.



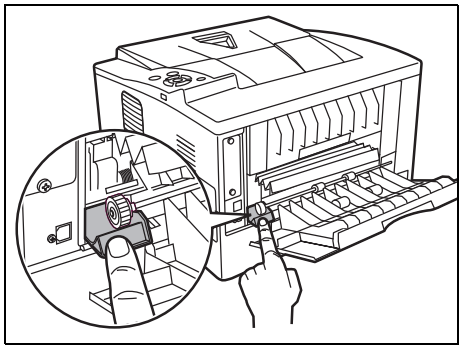
6 Insert the developer unit together with the toner container, back into the machine. Close the top cover and the front cover. The printer warms up and resumes printing.

Rear Cover



1 Open the rear cover and remove the jammed paper by pulling it out.

> **CAUTION** The fuser unit inside the printer is hot. Do not touch it, as it may result in burn injury.



If the paper is jammed inside the fuser unit, open the fuser cover and remove the paper by pulling it out.

2 Close the rear cover, and open and close the top cover to clear the error. The printer warms up and resumes printing.

6 Appendix

This section lists the following information of this printer.

Specifications **6-2**
Environmental Standard Requirements **6-4**

Specifications

Note These specifications are subject to change without notice.

Item		Description
Type		Desktop
Printing Method		Electrophotography, laser scan
Paper Weight	Cassette	60 to 120 g/m² (Duplex: 60 to 105 g/m²)
	MP Tray	60 to 220 g/m²
Paper Type	Cassette	Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color (Colour), Prepunched, High Quality, Custom 1 to 8
	MP Tray	Plain, Transparency, Preprinted, Labels, Bond, Recycled, Rough, Vellum, Letterhead, Color (Colour), Prepunched, Envelope, Cardstock, Thick paper, High Quality, Custom 1 to 8
Paper Size	Cassette	A4, JIS B5, A5, Folio, Legal, Letter, Oficio II, Statement, Executive, A6, B6, ISO B5, Envelope C5, 16K, Custom (105 × 148 to 216 × 356mm (4-1/8 × 5-13/16 to 8-1/2 × 14 inches)
	Paper Feeder	A4, JIS B5, A5, Folio, Legal, Letter, Oficio II, Executive, B6, ISO B5, Envelope C5, 16K, Custom (148 × 210 to 216 × 356mm (5-13/16 × 8-5/16 to 8-1/2 × 14 inches)
	MP Tray	A4, JIS B5, A5, Folio, Legal, Letter, Oficio II, Statement, Executive, A6, B6, ISO B5, Envelope C5, Envelope #10, Envelope #9, Envelope #6-3/4, Envelope Monarch, Envelope DL, Hagaki, Ofuku Hagaki, 16K, Yokei 2, Yokei 4, Custom (70 × 148 to 216 × 356mm (2-13/16 × 5-13/16 to 8-1/2 × 14 inches)
Magnification ratio		25 to 400 %, 1 % increments
Printing Speed	Simplex	A4/Letter: 35 ppm/37 ppm
		A5: 17 ppm
	Duplex	A4/Letter: 19 ppm/20 ppm
First Print Time (A4, feed from Cassette)		7 seconds or less
Warm-up Time (22°C/71.6°F, 60 %RH)	Power on	20 seconds or less (120 V AC), 19 seconds or less (230 V AC)
	Sleep	15 seconds or less (120 V AC), 14 seconds or less (230 V AC)
Paper Capacity	Cassette (1 to 3)	250 sheets (80 g/m², 11 × 8 1/2"/A4 or smaller)
	MP Tray	50 sheets (80 g/m², 11 × 8 1/2"/A4 or smaller)
Output Tray Capacity	Simplex	250 sheets (80 g/m²)
	Duplex	200 sheets (80 g/m²)
Continuous printing		1 to 999 sheets
Resolution		Fine 1200 mode, Fast 1200 mode, 600 dpi, 300 dpi
Operating Environment	Temperature	10 to 32.5°C/50 to 90.5°F
	Humidity	15 to 80 %
	Altitude	2,500 m/8,202 ft maximum
	Brightness	1,500 lux maximum

Item		Description
Controller		PowerPC 440F5/500 MHz
Supported OS		Microsoft Windows 2000/XP/Vista/7, Windows Server 2003/2008 Mac OS X 10.x
Interface		Hi-Speed USB: 1 Network: 1 (10BASE-T/100BASE-TX) KUIO-LV(W) slot: 1
PDL		PRESCRIBE
Emulation		PCL 6, KPDL, KPDL (AUTO), Line Printer, IBM Proprinter, DIABLO 630, EPSON LQ-850
Memory	Standard	128 MB
	Maximum	1152 MB
Dimension (W × D × H)		375 × 393 × 267 mm 14 3/4 × 15 1/2 × 10 1/2"
Weight (without toner container)		12 kg/26.5 lb
Power Requirements		120 V AC, 60 Hz, 8.0 A/220 to 240 V AC, 50/60 Hz, 4.2 A
Power Consumption	Maximum	925 W (U.S.A./Canada), 987 W (European countries)
	During printing	584 W (U.S.A./Canada), 553.9 W (European countries)
	During standby	10.3 W (U.S.A./Canada), 11 W (European countries) when EcoFuser is On.
		93.3 W (U.S.A./Canada), 89.3 W (European countries) when EcoFuser is Off.
	Sleep mode	5.5 W
	Power off	0 W
Options		Expanded memory, Paper Feeder (250-sheet × 2)

Environmental Standard Requirements

This machine conforms to the following environmental standard requirements.

- Time for switching to Sleep mode (default): 15 minutes
- Duplex Printing: Standard Equipment
- Durable paper for feeding: Paper made of 100 % recycled paper

Note Contact your dealer or service representative for recommended paper types.

Index

C

Cassette
loading paper 2-2
Charger cleaner 4-7
Cleaning
charger wire 4-7
printer 4-6
registration roller 4-7
Clearing paper jams
duplexer 5-14
inside the printer 5-15
MP tray 5-12
paper cassette 5-13
paper feeder 5-13
rear cover section 5-17
Components
at the front of the printer 1-2
at the rear of the printer 1-2
Connection
power cord 3-3, 3-4
USB cable 3-2
Custom mode
installation method 3-15

D

Developer unit
clearing paper jams 5-15
Drum unit
clearing paper jams 5-15
maintenance 4-6
Duplexer
clearing paper jams 5-14

E

Environmental standard requirements 6-4
Error messages
of memory card 5-8
of RAM disk 5-8
tabled, with corrective actions 5-5
Express mode
installation method 3-14

F

Front cover
components 1-2
Fuser unit
clearing paper jams 5-17

G

General problems
troubleshooting 5-2

I

Inside the printer
clearing paper jams 5-15
Installation method
custom mode 3-15
express mode 3-14
Installation precautions xvi
Installing the printer driver 3-13
Mac OS 3-15
Windows PC 3-13

L

Loading paper
Cassette 2-2
MP tray 2-5
Lock lever
toner container 4-3

M

Machine parts 1-1
Maintenance
Toner container replacement, cleaning 4-1
Moving printer 4-9
MP tray
clearing paper jams 5-12
components 1-2
loading paper 2-5

N

Names
Operation panel 1-3
Network interface parameters
AppleTalk 3-10, 3-11

O

Operation panel
components 1-2
indicators, keys, overview 1-3
Optional interface slot cover
components 1-2

P

Paper Cassette
components 1-2
Paper cassette
clearing paper jams 5-13
Paper feeder

clearing paper jams 5-13
Paper gauge 2-4
Paper guides 2-5
Paper length guide 2-3
Paper stopper
components 1-2
Possible paper jam locations 5-10
Power cord
connection 3-3, 3-4
Power cord connector
components 1-2
Power switch
components 1-2
Preparing paper 2-2
Print quality problems
troubleshooting 5-3
Prolonged non-use 4-9

R

Rear cover
components 1-2
Rear cover section
clearing paper jams 5-17
Registration roller
cleaning 4-7
Replacement
toner container 4-2, 4-3
Replacing toner container 4-3
Right cover
components 1-2

S

Specifications 6-2
Environmental specifications 6-4
Starter container
toner container 4-2
Subtray
components 1-2

T

Tips 5-2
Toner container
how to replace 4-3
replacement 4-2
Toner kit
toner container, plastic waste bag, installation guide 4-2
Top cover
components 1-2
Top tray
components 1-2
Troubleshooting 5-1
general problems 5-2
print quality problems 5-3
Turning on the power 3-3

U

USB cable
connection 3-2
USB interface connector
components 1-2

QUALITY CERTIFICATE

This machine has passed all quality controls and final inspection

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